LLNL Livermore Site Fourth Quarter 2008 Self-Monitoring Report

The following is the fourth quarter 2008 self-monitoring data for the treatment facilities and Lake Haussmann at the Lawrence Livermore National Laboratory (LLNL) Livermore Site. As has previously been discussed, when the final FY 2008 Omnibus Appropriations Bill was passed by Congress, the Livermore project received only about 50% of the requested budget. As a result, a number of treatment facilities had to be shut down to meet this new, much-reduced funding level. Other facilities became non-operational during the year and were not repaired due to insufficient resources. Additionally, TFD-HPD and VTFD-HPD were shutdown in October 2007 to prepare for an *in situ* bioremediation treatability test, which was interrupted as a result of the FY08 budget reduction.

In late July 2008, funding was restored and ERD developed the Remediation Evaluation (REVAL) process to bring facilities back to operational status. ERD initiated the REVAL process at several facilities during the fourth quarter 2008, resulting in the re-activation of TF406 and TFA-E. TFA-E operations were suspended on December 18 for freeze protection, and were restarted on December 29, 2008. REVAL activities were also focused on TFA, TFC-SE, and TFE-HS during the fourth quarter 2008, in an effort to restart these facilities during the first quarter of 2009.

ERD plans to implement or continue the REVAL process at the remaining non-operational facilities for quality assurance purposes. These facilities include: TFC-E, TFD, TFD-S, VTFD-ETCS, VTFD-HS, TFE-E, TFE-SE, VTFE-ELM, VTFE-HS, TFG-N, TF406-NW, VTF406-HS, VTF511, TF518-N, TF518-PZ, VTF518-PZ, TF5475-1, TF5475-2, TF5475-3, and VTF5475. The following facilities remained operational during FY08 and continued to operate during the fourth quarter 2008: TFB, TFC, TFD-W, TFD-SE, TFD-SS, TFE-SW, TFE-W, TFE-NW, and TFG-1. TFA West was shutdown in January 2008 after a year-long treatability test and is operational only during monthly sampling events.

The volumes of ground water and soil vapor treated and volatile organic compound (VOC) mass removed during the fourth quarter of 2008 are presented in Tables 1 and 2, respectively. An historical summary of VOC volume and mass removed are presented in Tables 3 and 4, respectively.

Attachment A presents ground water treatment facility and extraction well (ground water and soil vapor) VOC, chromium, bioassay, turbidity and chloride analyses (Tables A-1 through A-5). During the fourth quarter of 2008, all effluent sample analyses were within acceptable discharge limits. An addendum presenting analytical results from extraction wells associated with treatment facilities that were restarted during this reporting period and nearby monitor wells is included at the end of Attachment A.

Self-monitoring reports for all treatment facilities are presented in Attachment B. Monthly volumes of ground water extracted are shown in Attachment B; however, instantaneous flow rates are not shown for wells that are now only used for sampling and are not continuously pumped. The monthly volume shown for these wells is the quantity of water evacuated for sampling purposes. Monitoring data for Lake Haussmann are presented in Attachment C.

A well location map showing wells and treatment facilities, and ground water elevation contour maps showing hydraulic capture zones for hydrostratigraphic units (HSUs) 1B, 2, 3A, 3B, 4, and 5, are presented in Attachment D. There were no new monitoring wells installed during this reporting period. The contour maps for the individual HSUs are based on October data; due to the budget reduction, water levels were only collected during the month of October.

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Table 1. Volumes of ground water and soil vapor extracted and treated at the Livermore Site, October through December 2008.

Treatment Area[a]	Month	Volume of ground water extracted (Kgal)[b]	Volume of vapor extracted (Kft^3)[b]
TFA	October	0	-
	November	5	-
	December	18	-
TFB	October	1,686	-
	November	1,439	-
	December	1,714	-
TFC	October	2,450	-
	November	1,782	-
	December	2,745	-
TFD	October	2,329	0
	November	1,761	0
	December	2,464	0
TFE	October	1,533	0
	November	1,116	0
	December	1,698	0
TFG	October	393	-
	November	332	-
	December	421	-
TFH	October	25	0
	November	174	0
	December	794	0
TOTAL[c]		24,879	0

[a] Totals include ground water and soil vapor extracted from the following facilities:
TFA area: TFA, TFA-E, TFA-W
TFB area: TFB
TFC area: TFC, TFC-E, TFC-SE
TFD area: TFD, TFD-E, TFD-HPD, TFD-S, TFD-SE, TFD-SS, TFD-W, VTFD-ETCS, VTFD-HPD, VTFD-HS
TFE area: TFE-E, TFE-HS, TFE-NW, TFE-SE, TFE-SW, TFE-W, VTFE-ELM, VTFE-HS
TFG area: TFG-1, TFG-N
TFH area: TF406, TF406-NW, TF518-N, TF518-PZ, TF5475-1, TF5475-2, TF5475-3, VTF406-HS, VTF511, VTF518-PZ, VTF5475
TFF started operation in February 1993 for fuel hydrocarbon remediation. In August 1995, the regulatory agencies agreed that the vadose zone remediation was complete, and in October 1996 a No Further Action status was granted for the ground water.

[b] Totals are derived from individual extraction wells shown in Attachment B

[c] Rounded number

Kft^3 = thousands of cubic feet

Kgal = thousands of gallons

Table 2. VOC mass removed at the Livermore Site, October through December 2008.

Treatment Area[a]	VOC mass removed from ground water (kg)	VOC mass removed from soil vapor (kg)	Total VOC mass removed (kg) [b]
TFA	0.006	-	0.006
TFB	0.4	-	0.4
TFC	1.0	-	1.0
TFD	3.7	0	3.7
TFE	0.7	0	0.7
TFG	0.08	-	0.08
TFH	0.02	0	0.02
TOTAL[b]	5.9	0.0	5.9

Table 3. Historical summary of volumes of water and soil vapor removed at the Livermore Site through December 2008.

Treatment Area[a]	Volume of ground water extracted (Mgal)	Volume of vapor extracted (Kft^3)
TFA	1,566	-
TFB	358	-
TFC	361	-
TFD	826	49,708
TFE	300	124,223
TFG	58	-
TFH	130	163,208
TOTAL[b]	3,599	337,139

Table 4. Historical summary of VOC mass removed from water and soil vapor at the Livermore Site through December 2008.

Treatment Area[a]	VOC mass removed from ground water (kg)	VOC mass removed from soil vapor (kg)	Total VOC mass removed (kg) [b]
TFA	194	-	194
TFB	72	-	72
TFC	88	-	88
TFD	764	84	848
TFE	200	141	341
TFG	9	-	9
TFH	29	1,128	1,157
TOTAL[b]	1,356	1,353	2,709

[a] Refer to Table 1 footnote for facilities in each treatment facility area.
[b] Rounded number.

Abbreviations for Tables 2, 3 and 4:
Kft^3 = thousands of cubic feet.
Kg = Kilograms.
Mgal = millions of gallons.
VOC = Volatile organic compound.

Attachment A

VOC, Chromium, Bioassay, Turbidity, and Chloride Analyses

Table A-1. VOC analyses of influent and effluent samples by treatment facility.

Sample Station	Date Sampled	Analytic Method	CCl_4 <-	$CHCl_3$ -	1,1-DCA -	1,2-DCA -	1,1-DCE ug/L (ppb)	1,2-DCE -	Freon 113 -	PCE -	1,1,1-TCA -	TCE -	Freon 11 ->
TFA[a]	---	---	--	--	--	--	--	--	--	--	--	--	--
TFA-E[b]													
W-254	19-NOV-08	E601	<0.5	<0.5	<0.5	<0.5	**0.66**	<1	<0.5	**73**	<0.5	**1.8**	<0.5
STU06-I	09-DEC-08	E601	<0.5	<0.5	<0.5	<0.5	**0.59**	<1	<0.5	**67**	<0.5	**1.8**	<0.5
STU06-E	19-NOV-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
STU06-E	09-DEC-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFA-W[c]													
W-404	24-OCT-08	E601	<0.5	<0.5	**1.7**	<0.5	**2.5**	<1	<0.5	**11**	<0.5	<0.5	<0.5
W-404	21-NOV-08	E601	<0.5	<0.5	**1.6**	<0.5	**2.4**	<1	<0.5	**10**	<0.5	**0.6**	<0.5
W-404	18-DEC-08	E601	<0.5	<0.5	**1.8**	<0.5	**2.5**	<1	<0.5	**10**	<0.5	<0.5	<0.5
TFA-W-E	24-OCT-08	E624	<1	<1	**1.6**	<1	**2.3**	<1	<1	**9.9**	<1	<0.5	<1
TFB													
TFB-I002	09-OCT-08	E601	<0.5	**2**	<0.5	<0.5	**1.7**	<1	**2.2**	**0.96**	<0.5	**5.5**	<0.5
TFB-I002	04-NOV-08	E601	<0.5	**2**	<0.5	<0.5	**1.6**	<1	**2.7**	**0.88**	<0.5	**5.9**	<0.5
TFB-I002	02-DEC-08	E601	**0.5**	**2**	<0.5	<0.5	**1.6**	<1	**3.2**	**1.1**	<0.5	**7.1**	<0.5
TFB-E002	09-OCT-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFB-E002	04-NOV-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFB-E002	02-DEC-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFC													
TFC-I003	13-OCT-08	E601	<0.5	**1.5**	<0.5	<0.5	**1.3**	<1	**12**	**6.1**	<0.5	**16**	<0.5
TFC-I003	04-NOV-08	E601	<0.5	**1.4**	<0.5	<0.5	**1.1**	<1	**13**	**6.5**	<0.5	**17**	<0.5
TFC-I003	02-DEC-08	E601	<0.5	**1.4**	<0.5	<0.5	**1.1**	<1	**14**	**6.4**	<0.5	**16**	<0.5
TFC-E003	13-OCT-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFC-E003	04-NOV-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFC-E003	02-DEC-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFC-E[d]	---	---	--	--	--	--	--	--	--	--	--	--	--
TFC-SE[e]	---	---	--	--	--	--	--	--	--	--	--	--	--

Table A-1. VOC analyses of influent and effluent samples by treatment facility.

Sample Station	Date Sampled	Analytic Method	CCl_4 <-	$CHCl_3$ -	1,1-DCA -	1,2-DCA -	1,1-DCE ug/L (ppb)	1,2-DCE -	Freon 113 -	PCE -	1,1,1-TCA -	TCE -	Freon 11 ->
TFD[f]	---	---	--	--	--	--	--	--	--	--	--	--	--
TFD-E													
PTU8-I	14-OCT-08	E601	**6.1**	**1.9**	**0.59**	**1.7**	**12**	<1	**0.79**	**8.5**	<0.5	**120**	**1.8**
PTU8-I	05-NOV-08	E601	**6.2**	**1.7**	**0.51**	**1.6**	**10**	<1	**0.89**	**9.3**	<0.5	**110**	**1.6**
PTU8-I	03-DEC-08	E601	**6.3**	**1.7**	**0.56**	**1.7**	**10**	<1	**0.84**	**9.2**	<0.5	**130**	**1.9**
PTU8-E	14-OCT-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU8-E	05-NOV-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU8-E	03-DEC-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFD-HPD[g]	---	---	--	--	--	--	--	--	--	--	--	--	--
TFD-S[h]													
PTU2-I	21-NOV-08	E601	**7.1**	**2**	**0.65**	<0.5	**18**	<1	**3.2**	**8.9**	<0.5	**360**	**1.6**
PTU2-I	22-DEC-08	E601	**8.1**	**2.3**	**0.85**	**0.53**	**24**	<1	**3.8**	**9.3**	<0.5	**420**	**1.7**
PTU2-E	21-NOV-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU2-E	22-DEC-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFD-SE													
PTU11-I	15-OCT-08	E601	**0.63**	**1.2**	**1.4**	**5.5**	**22**	<1	<0.5	**91**	<0.5	**160**	<0.5
PTU11-I	05-NOV-08	E601	**0.68**	**1.3**	**1.5**	**6.2**	**25**	**1.1**	<0.5	**87**	<0.5	**160**	<0.5
PTU11-I	03-DEC-08	E601	**0.65**	**1.3**	**1.6**	**6.3**	**24**	**1.1**	<0.5	**100**	<0.5	**190**	<0.5
PTU11-E	15-OCT-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU11-E	05-NOV-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU11-E	03-DEC-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFD-SS													
PTU12-I	07-OCT-08	E601	**2.7**	**3.1**	<0.5	**1.5**	**10**	<1	**1**	**20**	<0.5	**120**	**5.9**
PTU12-I	18-NOV-08	E601	**3.1**	**3.1**	<0.5	**1.4**	**9.2**	<1	**1.2**	**21**	<0.5	**110**	**6.4**
PTU12-I	18-DEC-08	E601	**3**	**3**	<0.5	**1.4**	**8.6**	<1	**1.1**	**20**	<0.5	**130**	**7.4**
PTU12-E	07-OCT-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU12-E	18-NOV-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU12-E	18-DEC-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5

Table A-1. VOC analyses of influent and effluent samples by treatment facility.

Sample Station	Date Sampled	Analytic Method	CCl_4 <-	$CHCl_3$ -	1,1-DCA -	1,2-DCA -	1,1-DCE ug/L (ppb)	1,2-DCE -	Freon 113 -	PCE -	1,1,1-TCA -	TCE -	Freon 11 ->
TFD-W													
PTU6-I	08-OCT-08	E601	**0.59**	**3.4**	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**8**	**95**
PTU6-I	17-NOV-08	E601	**0.66**	**3.4**	<0.5	<0.5	<0.5	<1	**0.59**	<0.5	<0.5	**8.6**	**100**
PTU6-I	16-DEC-08	E601	**0.65**	**3.4**	<0.5	<0.5	<0.5	<1	**0.55**	<0.5	<0.5	**8.4**	**94**
PTU6-E	08-OCT-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU6-E	17-NOV-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU6-E	16-DEC-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFE-E[i]	---	---	--	--	--	--	--	--	--	--	--	--	--
TFE-HS[j]	---	---	--	--	--	--	--	--	--	--	--	--	--
TFE-NW													
PTU9-I	07-OCT-08	E601	**0.5**	**1.3**	<0.5	<0.5	<0.5	<1	**0.8**	<0.5	<0.5	**12**	<0.5
PTU9-I	19-NOV-08	E601	**0.58**	**1.4**	<0.5	<0.5	<0.5	<1	**0.97**	<0.5	<0.5	**12**	<0.5
PTU9-I	08-DEC-08	E601	**0.57**	**1.5**	<0.5	<0.5	<0.5	<1	**0.84**	<0.5	<0.5	**13**	<0.5
PTU9-E	07-OCT-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU9-E	19-NOV-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU9-E	08-DEC-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFE-SE[k]	---	---	--	--	--	--	--	--	--	--	--	--	--
TFE-SW													
MTU03-I	16-OCT-08	E601	**7.5**	**4.8**	<0.5	**1.4**	**5.9**	**5.3**	**0.72**	**7.3**	<0.5	**210**	<0.5
MTU03-I	06-NOV-08	E601	**7.6**	**4.8**	<0.5	**1.4**	**6.4**	**5.6**	**0.8**	**7.4**	<0.5	**200**	<0.5
MTU03-I	04-DEC-08	E601	**8.1**	**5.1**	<0.5	**1.5**	**6.1**	**5.8**	**0.78**	**7.2**	<0.5	**220**	<0.5
MTU03-E	16-OCT-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
MTU03-E	06-NOV-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
MTU03-E	04-DEC-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFE-W													
MTU05-I	15-OCT-08	E601	<0.5	**1**	<0.5	<0.5	**2.4**	**1.5**	**16**	**6**	<0.5	**35**	**0.62**
MTU05-I	06-NOV-08	E601	<0.5	**1.1**	<0.5	<0.5	**2.6**	**1.5**	**18**	**6.4**	<0.5	**36**	**0.66**
MTU05-I	04-DEC-08	E601	<0.5	**1**	<0.5	<0.5	**2.5**	**1.4**	**18**	**6.3**	<0.5	**35**	**0.65**
MTU05-E	15-OCT-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
MTU05-E	06-NOV-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5

Table A-1. VOC analyses of influent and effluent samples by treatment facility.

Sample Station	Date Sampled	Analytic Method	CCl_4 <-	$CHCl_3$ -	1,1-DCA -	1,2-DCA -	1,1-DCE ug/L (ppb)	1,2-DCE -	Freon 113 -	PCE -	1,1,1-TCA -	TCE -	Freon 11 ->
TFE-W (cont.)													
MTU05-E	04-DEC-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFG-1													
W-1111	07-OCT-08	E601	**2.6**	**10**	<0.5	<0.5	**1.2**	<1	<0.5	**1.3**	<0.5	**3.9**	<0.5
GTU01-I	20-NOV-08	E601	**2.8**	**9.6**	<0.5	<0.5	**0.99**	<1	**0.5**	**1.5**	<0.5	**4.7**	<0.5
GTU01-I	18-DEC-08	E601	**2.9**	**10**	<0.5	<0.5	**0.96**	<1	**0.5**	**1.4**	<0.5	**4**	<0.5
GTU01-E	07-OCT-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
GTU01-E	20-NOV-08	E601	<0.5	**1.1**	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
GTU01-E	18-DEC-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFG-N[l]	---	---	--	--	--	--	--	--	--	--	--	--	--
TF406[m]													
PTU5-I	16-OCT-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**2.9**	<0.5
PTU5-I	22-OCT-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**6.6**	<0.5
PTU5-I	23-OCT-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**4.5**	<0.5
PTU5-I	17-NOV-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**3.6**	<0.5
PTU5-I	16-DEC-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**7.2**	<0.5
PTU5-E	16-OCT-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU5-E	17-NOV-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU5-E	16-DEC-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TF406-NW[n]	---	---	--	--	--	--	--	--	--	--	--	--	--
TF518-N[o]	---	---	--	--	--	--	--	--	--	--	--	--	--
TF5475-1[p]	---	---	--	--	--	--	--	--	--	--	--	--	--
TF5475-2[q]	---	---	--	--	--	--	--	--	--	--	--	--	--
TF5475-3[r]	---	---	--	--	--	--	--	--	--	--	--	--	--

Notes on following page.

Table A-1. VOC analyses of influent and effluent samples by treatment facility.

[a] TFA did not operate during reporting period due to multiple electronic control issues.

[b] TFA-E did not operate in October due to possible electronic issues.

[c] TFA-W was shut down in January after a year-long treatability test; W-404 is operational only during routine sample collection.

[d] TFC-E did not operate during reporting period due to the budget reduction.

[e] TFC-SE did not operate during reporting period due to discharge pump issues which will be investigated and repaired as manpower and priorities allow.

[f] TFD did not operate during reporting period due to required maintenance. (A pre-start review will be conducted prior to restarting facility).

[g] TFD-HPD did not operate during reporting period due to the budget reduction.

[h] TFD-S did not operate during the month of October due to the budget reduction.

[i] TFE-E did not operate during reporting period due to a pending electronics evaluation to identify problem areas.

[j] TFE-HS did not operate during reporting period due to insufficient resources to repair pump.

[k] TFE-SE did not operate during reporting period due to insufficient resources to replace pump. (The facility is the first priority for pump replacement).

[l] TFG-N did not operate during reporting period due to a pending electronics evaluation to identify needed repairs.

[m] TF406 includes pre-startup extraction well sampling and monthly sampling results.

[n] TF406-NW did not operate during reporting period due to pump failure and insufficient resources to repair. (The facility is the third priority for pump replacement).

[o] TF518-N did not operate during reporting period due to the budget reduction.

[p] TF5475-1 did not operate during reporting period due to the budget reduction.

[q] TF5475-2 did not operate during reporting period due to the budget reduction.

[r] TF5475-3 did not operate during reporting period due to the budget reduction.

Notes:

CCl_4 = Carbon tetrachloride

$CHCl_3$ = Chloroform

1,1-DCA = 1,1-Dichloroethane

1,2-DCA = 1,2-Dichloroethane

1,1-DCE = 1,1-Dichloroethylene

1,2-DCE = 1,2-Dichloroethylene

Freon 113 = Trichlorotrifluoroethane

PCE = Tetrachloroethylene

1,1,1-TCA = 1,1,1-Trichloroethane

TCE = Trichloroethene

Freon 11 = Trichlorofluoromethane

VOC = volatile organic compound

Numbers in **BOLD** print indicate positive values above the detection limit.

Table A-2. VOC analyses of samples from treatment facility extraction wells.

Extraction Well	Date Sampled	Analytic Method	CCl_4 <-	$CHCl_3$ -	1,1-DCA -	1,2-DCA -	1,1-DCE ug/L (ppb)	1,2-DCE -	Freon 113 -	PCE -	1,1,1-TCA -	TCE -	Freon 11 ->
TFA[a]													
W-109[b]	24-APR-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	**0.51**	**2**	<0.5	<0.5	<0.5
W-262[b]	29-JAN-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	**0.56**	<0.5	<0.5	<0.5
W-408[b]	24-APR-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	**0.78**	<0.5	<0.5	<0.5
W-415[b]	24-APR-08	E601	<0.5	**1.2**	**0.84**	<0.5	**1.8**	<1	<0.5	**14**	<0.5	**1.2**	<0.5
W-457[b]	24-APR-08	E601	<0.5	<0.5	**0.84**	<0.5	**1.1**	<1	<0.5	**8**	<0.5	<0.5	<0.5
W-518[b]	24-APR-08	E601	<0.5	<0.5	**7.3**	<0.5	**4**	<1	<0.5	**6.3**	<0.5	**0.67**	<0.5
W-522[b]	24-APR-08	E601	<0.5	<0.5	**2.3**	<0.5	**1.5**	<1	<0.5	**3.5**	<0.5	<0.5	<0.5
W-605[b]	24-APR-08	E601	<0.5	**0.83**	**0.92**	<0.5	**1.4**	<1	<0.5	**22**	<0.5	**1.1**	<0.5
W-614[b]	24-APR-08	E601	<0.5	**0.84**	<0.5	<0.5	<0.5	<1	<0.5	**8.2**	<0.5	<0.5	<0.5
W-712[b]	24-APR-08	E601	**3.2**	**3**	**1.2**	<0.5	**3.7**	<1	<0.5	**1.6**	<0.5	**3.6**	<0.5
W-714[b]	06-MAY-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	**8.4**	<0.5	<0.5	<0.5
W-903[b]	29-JAN-08	E601	<0.5	<0.5	**1.8**	<0.5	**1.4**	<1	<0.5	**7.5**	<0.5	**0.52**	<0.5
W-904[b]	24-APR-08	E601	<0.5	<0.5	**0.97**	<0.5	**1.5**	<1	<0.5	**9.1**	<0.5	**0.53**	<0.5
W-1001[b]	24-APR-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
W-1004[b]	24-APR-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	**4.2**	<0.5	<0.5	<0.5
W-1009[b]	24-APR-08	E601	**1.4**	**5.9**	**0.94**	<0.5	**4**	<1	**0.71**	**13**	<0.5	**2.3**	<0.5
TFA-E													
W-254	19-NOV-08	E601	<0.5	<0.5	<0.5	<0.5	**0.66**	<1	<0.5	**73**	<0.5	**1.8**	<0.5
TFA-W													
W-404	18-DEC-08	E601	<0.5	<0.5	**1.8**	<0.5	**2.5**	<1	<0.5	**10**	<0.5	<0.5	<0.5
TFB													
W-357	09-OCT-08	E601	**1.5**	**2.9**	<0.5	<0.5	**1.9**	<1	**5.9**	**1.4**	<0.5	**42**	<0.5
W-610	09-OCT-08	E601	<0.5	<0.5	<0.5	<0.5	**3.2**	<1	**3.7**	**1.3**	<0.5	**3.9**	<0.5
W-620	09-OCT-08	E601	<0.5	**2**	<0.5	<0.5	**2.8**	<1	**3.4**	**2**	<0.5	**8**	<0.5
W-621	09-OCT-08	E601	<0.5	**0.8**	<0.5	<0.5	**0.73**	<1	**1.4**	<0.5	<0.5	**4.8**	<0.5
W-655	09-OCT-08	E601	<0.5	**0.77**	<0.5	<0.5	<0.5	<1	**3.1**	<0.5	<0.5	**2.8**	<0.5
W-704	09-OCT-08	E601	**0.61**	**3**	<0.5	<0.5	**2.2**	<1	**5.2**	**3.4**	<0.5	**27**	<0.5
W-1423	09-OCT-08	E601	**0.82**	**5.3**	<0.5	<0.5	**3.9**	<1	**3.4**	**1.9**	<0.5	**11**	<0.5
TFC													
W-701	13-OCT-08	E601	<0.5	**3.2**	<0.5	<0.5	**2.9**	<1	**33**	**0.54**	<0.5	**11**	**0.52**
W-1015	13-OCT-08	E601	<0.5	**0.67**	<0.5	<0.5	**1.1**	<1	**2.1**	**1.1**	<0.5	**4.9**	<0.5
W-1102	13-OCT-08	E601	<0.5	<0.5	<0.5	<0.5	**0.68**	<1	**10**	<0.5	<0.5	**2.6**	**3.2**
W-1103	13-OCT-08	E601	<0.5	**0.56**	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**1.9**	<0.5
W-1104	13-OCT-08	E601	<0.5	**0.98**	<0.5	<0.5	**0.56**	<1	**4.8**	**11**	<0.5	**25**	<0.5
W-1116	13-OCT-08	E601	<0.5	**1.7**	<0.5	<0.5	**0.55**	<1	**7**	**2.6**	<0.5	**4**	<0.5

Table A-2. VOC analyses of samples from treatment facility extraction wells.

Extraction Well	Date Sampled	Analytic Method	CCl_4 <-	$CHCl_3$ -	1,1-DCA -	1,2-DCA -	1,1-DCE ug/L (ppb)	1,2-DCE -	Freon 113 -	PCE -	1,1,1-TCA -	TCE -	Freon 11 ->
TFC-E[a]													
W-368[b]	08-JAN-08	E601	<0.5	**11**	<0.5	<0.5	**0.82**	<1	**18**	**2.3**	<0.5	**16**	**3.7**
W-413[b]	08-JAN-08	E601	<0.5	**15**	<0.5	<0.5	**1.2**	<1	**11**	<0.5	<0.5	**8.1**	**3.7**
TFC-SE[a]													
W-1213[b]	08-APR-08	E601	<0.5	**4.4**	<0.5	<0.5	**2.7**	<1	**6.4**	<0.5	<0.5	**15**	<0.5
W-2201[b]	08-APR-08	E601	<0.5	**9.5**	<0.5	<0.5	**2.4**	<1	**15**	**0.69**	<0.5	**19**	**1.2**
TFD[a]													
W-351[b]	03-APR-08	E601	**5.3**	**1.1**	<0.5	**0.99**	**3.9**	<1	**1.2**	**5.4**	<0.5	**99**	**1.3**
W-653[b]	07-JUL-08	E601	**40**	**12**	<0.5	<0.5	**1.5**	<1	**5.3**	**1.5**	<0.5	**1400**	<0.5
W-906[b]	03-APR-08	E601	**0.81**	**1.6**	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**3.4**	**1.9**
W-907-2[b]	07-JUL-08	E601	**0.99**	**3.2**	<0.5	<0.5	**1.3**	<1	<0.5	**1.7**	<0.5	**29**	<0.5
W-1206[b]	07-JUL-08	E601	**0.87**	**1.6**	<0.5	<0.5	**0.66**	<1	<0.5	**0.52**	<0.5	**19**	<0.5
W-1208[b]	07-JUL-08	E601	**3.1**	**2.2**	<0.5	<0.5	**0.6**	<1	**0.63**	**0.93**	<0.5	**64**	**53**
W-2011[b]	04-APR-07	E601	**3.1**	**2.2**	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**77**	<0.5
W-2101[b]	04-APR-07	E601	**17**	**5.2**	<0.5	<0.5	**0.68**	<1	**2.7**	**0.83**	<0.5	**450**	<0.5
W-2102[b]	04-APR-07	E601	**28**	**9.7**	<0.5	<0.5	**0.74**	<1	**3.6**	**0.77**	<0.5	**840**	**1.8**
TFD-E													
W-1253[bc]	11-FEB-08	E601	**6**	**6.2**	<5	<5	**16**	<10	**17**	**12**	<5	**2300**	<5
W-1255[b]	11-FEB-08	E601	**4.4**	**2**	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**260**	<0.5
W-1301	14-OCT-08	E601	**5**	**2.7**	**3.2**	**11**	**84**	**1.2**	**0.66**	**46**	<0.5	**460**	<0.5
W-1303	14-OCT-08	E601	**3**	**2.9**	**0.8**	**3.1**	**7.2**	<1	<0.5	**6.7**	<0.5	**150**	**23**
W-1306	14-OCT-08	E601	**4.6**	**1.6**	<0.5	<0.5	<0.5	<1	<0.5	**1.8**	<0.5	**100**	<0.5
W-1307	14-OCT-08	E601	**1.6**	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**24**	<0.5
W-1404	17-OCT-08	E601	<0.5	**3.1**	**4.8**	**37**	**24**	**7.3**	<0.5	**98**	<0.5	**360**	<0.5
W-1550	14-OCT-08	E601	**16**	**3.5**	<0.5	<0.5	**2.3**	<1	**1.4**	**11**	<0.5	**170**	<0.5
W-2006	14-OCT-08	E601	**1.3**	**2.4**	**2.9**	**9.5**	**88**	**1.3**	<0.5	**83**	<0.5	**690**	<0.5
W-2203	14-OCT-08	E601	**16**	**2.4**	<0.5	<0.5	**3.2**	<1	**3.4**	**7.5**	<0.5	**150**	<0.5
TFD-HPD[a]													
W-1254[b]	04-OCT-07	E601	**0.88**	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**14**	<0.5
W-1551[b]	04-OCT-07	E601	**11**	**4.4**	<0.5	<0.5	**1.6**	<1	**3**	**3.1**	<0.5	**210**	<0.5
W-1552[b]	20-DEC-07	E601	<0.5	**0.96**	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**22**	<0.5
W-1650[b]	20-DEC-07	E601	**7.1**	**1.8**	<0.5	<0.5	<0.5	<1	**2.6**	<0.5	<0.5	**260**	<0.5
W-1651[b]	20-DEC-07	E601	**1.3**	**1.1**	<0.5	<0.5	<0.5	<1	**0.61**	<0.5	<0.5	**64**	<0.5
W-1652[b]	18-DEC-07	E601	**3**	**2**	<0.5	<0.5	<0.5	**3.7**	**1**	**0.54**	<0.5	**420**	<0.5
W-1653[b]	18-DEC-07	E601	**1.4**	**0.9**	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**74**	<0.5
W-1654[b]	18-DEC-07	E601	<0.5	**0.55**	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**25**	<0.5

Table A-2. VOC analyses of samples from treatment facility extraction wells.

Extraction Well	Date Sampled	Analytic Method	CCl_4 <-	$CHCl_3$ -	1,1-DCA -	1,2-DCA -	1,1-DCE ug/L (ppb)	1,2-DCE -	Freon 113 -	PCE -	1,1,1-TCA -	TCE -	Freon 11 ->
TFD-HPD (cont.)													
W-1655[b]	18-DEC-07	E601	**0.62**	**0.94**	<0.5	<0.5	<0.5	<1	<0.5	**1**	<0.5	**49**	<0.5
W-1656[b]	18-DEC-07	E601	**2.5**	**0.97**	<0.5	<0.5	<0.5	<1	**0.88**	<0.5	<0.5	**100**	<0.5
W-1657[b]	18-DEC-07	E601	**12**	**5.1**	<0.5	<0.5	<0.5	<1	**4.2**	**0.52**	<0.5	**1200**	<0.5
TFD-S													
W-1503	21-NOV-08	E601	**9.3**	**2.6**	**0.87**	**0.59**	**23**	<1	**3.7**	**7.6**	<0.5	**440**	**2.1**
W-1504	21-NOV-08	E601	<0.5	<0.5	<0.5	<0.5	**14**	<1	**4.1**	**22**	<0.5	**100**	<0.5
W-1510	21-NOV-08	E601	<0.5	<0.5	<0.5	<0.5	**0.87**	<1	<0.5	**1.5**	<0.5	**16**	<0.5
TFD-SE													
W-314[b]	07-JAN-08	E601	**1.6**	**8.9**	**0.72**	**1.7**	**11**	<1	**5**	**21**	<0.5	**170**	<0.5
W-1308	15-OCT-08	E601	<0.5	**1.2**	**1.4**	**6.3**	**17**	**1**	<0.5	**100**	<0.5	**150**	<0.5
W-1403[b]	02-JUL-08	E601	**2.9**	**19**	**1.5**	**6.6**	**51**	<1	**3.9**	**98**	<0.5	**430**	<0.5
W-1904[b]	26-DEC-07	E601	<0.5	<0.5	**0.54**	**0.67**	**5.8**	<1	<0.5	**39**	<0.5	**42**	<0.5
W-2005	15-OCT-08	E601	**1.3**	**1.2**	**1.2**	**3.6**	**38**	<1	<0.5	**84**	<0.5	**210**	<0.5
SIP-ETC-201[b]	26-DEC-07	E601	<0.5	**0.55**	**0.59**	**1.1**	**8.5**	<1	<0.5	**59**	<0.5	**60**	<0.5
TFD-SS													
W-1523	07-OCT-08	E601	**4.2**	**3.8**	<0.5	**1.6**	**13**	<1	**1.4**	**20**	<0.5	**150**	<0.5
W-1601	07-OCT-08	E601	**3.8**	**4.2**	**1.9**	**6.8**	**30**	**1.3**	**1.4**	**93**	<0.5	**270**	<0.5
W-1602	07-OCT-08	E601	<0.5	**2**	<0.5	<0.5	**0.57**	<1	<0.5	**0.72**	<0.5	**14**	**16**
W-1603[b]	11-APR-08	E601	**1.6**	**2**	**1.2**	**4.8**	**16**	**1.2**	<0.5	**33**	<0.5	**170**	**8.6**
TFD-W													
W-1215[b]	15-JUL-08	E601	<0.5	**6.5**	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**5.6**	**34**
W-1216	08-OCT-08	E601	<0.5	**4.2**	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**6**	**65**
W-1902	08-OCT-08	E601	**0.62**	**3.3**	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**9.1**	**92**
TFE-E[a]													
W-566[b]	09-APR-08	E601	**0.71**	**6.7**	<0.5	<0.5	**3.5**	<1	**9.4**	**4.4**	<0.5	**58**	<0.5
W-1109[b]	09-APR-08	E601	<0.5	**0.58**	**0.51**	<0.5	**43**	<1	**7.9**	**71**	<0.5	**200**	<0.5
W-1903[b]	30-JUL-07	E601	<0.5	<0.5	<0.5	<0.5	**23**	<1	**11**	**21**	<0.5	**36**	<0.5
W-1909[b]	30-JUL-07	E601	<0.5	<0.5	<0.5	<0.5	**35**	<1	**10**	**48**	<0.5	**58**	<0.5
W-2305[b]	30-JUL-07	E601	<0.5	**1.1**	**1.5**	<0.5	**99**	<1	**21**	**170**	<0.5	**380**	<0.5
TFE-HS[a]													
W-2012[b]	09-APR-08	E601	**1.9**	**1.8**	<0.5	<0.5	**9**	**2.9**	**7.9**	**15**	<0.5	**260**	<0.5
W-2105[b]	09-APR-08	E601	<0.5	**1.4**	<0.5	<0.5	**3.2**	**1.4**	**4.4**	**14**	<0.5	**440**	<0.5

Table A-2. VOC analyses of samples from treatment facility extraction wells.

Extraction Well	Date Sampled	Analytic Method	CCl_4 <-	$CHCl_3$ -	1,1-DCA -	1,2-DCA -	1,1-DCE ug/L (ppb)	1,2-DCE -	Freon 113 -	PCE -	1,1,1-TCA -	TCE -	Freon 11 ->
TFE-NW													
W-1211	07-OCT-08	E601	**0.5**	**1.3**	<0.5	<0.5	<0.5	<1	**0.77**	<0.5	<0.5	**12**	<0.5
W-1409[b]	10-APR-08	E601	<0.5	<0.5	<0.5	<0.5	**1.2**	<1	**0.57**	**1.7**	<0.5	**30**	<0.5
TFE-SE[a]													
W-359[b]	09-JAN-08	E601	**4.1**	**0.69**	<0.5	<0.5	**10**	<1	**9.3**	**8.7**	<0.5	**100**	**0.91**
TFE-SW													
W-1518[b]	14-JUL-08	E601	<0.5	**0.6**	<0.5	<0.5	**1.9**	**2.2**	**1.9**	**1.1**	<0.5	**17**	<0.5
W-1520	16-OCT-08	E601	**3.9**	**6.4**	<0.5	**1.4**	**1.5**	**88**	<0.5	**3.8**	<0.5	**100**	<0.5
W-1522	16-OCT-08	E601	**8.1**	**4.9**	<0.5	**1.4**	**6**	**5.4**	**0.77**	**8.1**	<0.5	**220**	<0.5
TFE-W													
W-292	15-OCT-08	E601	<0.5	**0.82**	<0.5	<0.5	**1**	**2.9**	**1.6**	**1.3**	<0.5	**24**	<0.5
W-305	15-OCT-08	E601	<0.5	**1.2**	<0.5	<0.5	**3.4**	<1	**25**	**9.6**	<0.5	**41**	**1**
TFG-1													
W-1111	07-OCT-08	E601	**2.6**	**10**	<0.5	<0.5	**1.2**	<1	<0.5	**1.3**	<0.5	**3.9**	<0.5
TFG-N[a]													
W-1806[b]	09-APR-08	E601	<0.5	**2.4**	<0.5	<0.5	<0.5	<1	<0.5	**12**	<0.5	**2.4**	<0.5
W-1807[b]	10-APR-08	E601	<0.5	**2**	<0.5	<0.5	**1.5**	<1	**1.5**	**16**	<0.5	**5.4**	<0.5
TF406													
W-1309	16-OCT-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**8.4**	<0.5
W-1310	16-DEC-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**7**	<0.5
GSW-445	16-OCT-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**2.9**	<0.5
TF406-NW[a]													
W-1801[b]	28-APR-08	E601	<0.5	**2.3**	<0.5	<0.5	<0.5	<1	**5.4**	**0.74**	<0.5	**23**	<0.5
TF518-N[a]													
W-1410[b]	23-JAN-08	E601	**2.8**	**1.5**	<0.5	<0.5	<0.5	<1	<0.5	**0.83**	<0.5	**18**	<0.5
TF518-PZ[d]													
W-1615[b]	07-FEB-08	E601	**0.58**	**0.84**	<0.5	<0.5	**3**	<1	<0.5	**42**	<0.5	**130**	<0.5
W-518-1913[b]	07-FEB-08	E601	<0.5	<0.5	<0.5	<0.5	**7.5**	<1	<0.5	**18**	<0.5	**34**	<0.5
W-518-1914[b]	07-FEB-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	**20**	<0.5	**5.6**	<0.5
W-518-1915[bc]	07-FEB-08	E601	<25	<25	<25	<25	**180**	<50	<25	**1500**	<25	**12000**	<25
SVB-518-201[b]	07-FEB-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	**35**	<0.5	**8.5**	<0.5

Table A-2. VOC analyses of samples from treatment facility extraction wells.

Extraction Well	Date Sampled	Analytic Method	CCl_4 <-	$CHCl_3$ -	1,1-DCA -	1,2-DCA -	1,1-DCE ug/L (ppb)	1,2-DCE -	Freon 113 -	PCE -	1,1,1-TCA -	TCE -	Freon 11 ->
TF518-PZ (cont.)													
SVB-518-204[b]	07-FEB-08	E601	<0.5	**0.63**	<0.5	<0.5	**1.4**	<1	<0.5	**43**	<0.5	**550**	<0.5
TF5475-1[a]													
W-1302-2[b]	18-JUL-07	E601	**1.8**	**19**	**0.73**	**3.4**	**20**	<1	**7.4**	**41**	<0.5	**260**	<0.5
TF5475-2[a]													
W-1108[b]	16-JAN-08	E601	**2**	**39**	**0.79**	**3.1**	**18**	<1	**5.9**	**45**	<0.5	**440**	<0.5
W-1415[b]	16-JAN-08	E601	**0.71**	**3.9**	<0.5	<0.5	**8.4**	<1	**2.1**	**9.8**	<0.5	**76**	<0.5
TF5475-3[a]													
W-1604[b]	21-AUG-07	E601	**2.9**	**29**	**0.94**	**5.2**	**23**	<1	**17**	**45**	<0.5	**390**	<0.5
W-1605[b]	21-AUG-07	E601	**1.3**	**13**	<0.5	**5.7**	**7.2**	**1.2**	**4**	**21**	<0.5	**210**	<0.5
W-1608[b]	21-AUG-07	E601	<0.5	**9.5**	**0.71**	**3.2**	**2.1**	**3.2**	**1.8**	**7.1**	<0.5	**69**	<0.5
W-1609[b]	21-AUG-07	E601	<0.5	**13**	**0.55**	**9.4**	**2.7**	<1	**0.94**	**7.9**	<0.5	**62**	<0.5

Notes on following page.

Table A-2. VOC analyses of samples from treatment facility extraction wells.

[a] Treatment Facility did not operate during reporting period. Please refer to Table A-1 for details.

[b] Most recent VOC sample results available.

[c] Elevated detection limit due to dilution.

[d] No ground water was extracted from TF518-PZ wells during reporting period.

Notes:

CCl_4 = Carbon tetrachloride

$CHCl_3$ = Chloroform

1,1-DCA = 1,1-Dichloroethane

1,2-DCA = 1,2-Dichloroethane

1,1-DCE = 1,1-Dichloroethylene

1,2-DCE = 1,2-Dichloroethylene

Freon 113 = Trichlorotrifluoroethane

PCE = Tetrachloroethylene

1,1,1-TCA = 1,1,1-Trichloroethane

TCE = Trichloroethene

Freon 11 = Trichlorofluoromethane

VOC = volatile organic compound

Numbers in **BOLD** print indicate positive values above the detection limit.

Table A-3. VOC analyses of vapor samples from treatment facility extraction wells.

Extraction Well	Date Sampled	Analytic Method	CCl_4 <-	$CHCl_3$ -	1,1-DCA -	1,2-DCA -	1,1-DCE PPM(V/V)	1,2-DCE -	Freon 113 -	PCE -	1,1,1-TCA -	TCE -	Freon 11 ->
VTFD-ETCS[a]													
W-1904[b]	26-JUN-07	TO15DI	<0.02	<0.02	<0.02	<0.02	**0.12**	<0.02	<0.02	**2.2**	<0.02	**0.64**	<0.02
W-ETC-2003[b]	12-JUL-07	TO15DI	<0.008	<0.008	<0.008	<0.008	**0.022**	<0.008	<0.008	**1.1**	<0.008	**0.26**	<0.008
W-ETC-2004A[b]	12-JUL-07	TO15DI	<0.01	<0.01	<0.01	<0.01	**0.021**	<0.01	<0.01	**1.6**	<0.01	**0.5**	<0.01
W-ETC-2004B[b]	12-JUL-07	TO15DI	<0.02	<0.02	<0.02	<0.02	**0.18**	<0.02	<0.02	**3.3**	<0.02	**1.7**	<0.02
SIP-ETC-201[b]	12-JUL-07	TO15DI	<0.01	<0.01	**0.023**	<0.01	**0.054**	<0.01	<0.01	**1.6**	<0.01	**0.8**	<0.01
VTFD-HPD[c]													
W-1552[b]	13-FEB-07	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	**0.011**	<0.005	**0.2**	<0.005
W-1650[b]	03-JUL-07	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
W-1651[b]	03-JUL-07	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
W-1652[b]	03-JUL-07	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
W-1653[b]	03-JUL-07	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
W-1654[b]	03-JUL-07	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
W-1655[b]	03-JUL-07	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
W-1656[b]	03-JUL-07	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
W-1657[b]	03-JUL-07	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
W-HPA-002B[b]	03-JUL-07	TO15DI	**0.032**	**0.024**	<0.0057	<0.0057	**0.011**	<0.0057	<0.0057	**0.1**	<0.0057	**1**	<0.0057
VTFD-HS[d]													
W-653[b]	15-FEB-07	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	**0.093**	<0.005
W-2011[b]	15-FEB-07	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	**0.081**	<0.005
W-2101[b]	15-FEB-07	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	**0.061**	<0.005
W-2102[b]	15-FEB-07	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	**0.11**	<0.005
VTFE-ELM[e]													
W-1903[b]	16-AUG-07	TO15DI	<0.0084	<0.0084	<0.0084	<0.0084	**1.4**	<0.0084	**0.36**	**1.4**	<0.0084	**1.5**	<0.0084
W-1909[b]	16-JUL-07	TO15DI	<0.008	<0.008	<0.008	<0.008	**1.2**	<0.008	**0.36**	**0.04**	<0.008	**0.19**	<0.008
W-2305[b]	16-AUG-07	TO15DI	<0.005	<0.005	<0.005	<0.005	**0.014**	<0.005	**0.016**	**0.064**	<0.005	**0.069**	<0.005
W-543-001[b]	05-FEB-08	TO15DI	<0.005	<0.005	<0.005	<0.005	**0.0096**	<0.005	<0.005	**0.13**	<0.005	**0.038**	<0.005
W-543-003[b]	05-FEB-08	TO15DI	<0.005	**0.0069**	<0.005	<0.005	**0.052**	<0.005	**0.012**	**0.11**	<0.005	**0.29**	<0.005
W-543-1908[b]	05-FEB-08	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	**0.015**	<0.005	**0.023**	<0.005
VTFE-HS[f]													
W-ETS-2008A[b]	30-JAN-08	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	**0.031**	<0.005	**0.057**	<0.005
W-ETS-2008B[b]	05-FEB-08	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	**0.015**	**0.14**	<0.005	**0.4**	<0.005
W-ETS-2009[b]	30-JAN-08	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	**0.062**	<0.005	**0.092**	<0.005
W-ETS-2010A[b]	30-JAN-08	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	**0.046**	<0.005	**0.096**	<0.005
W-ETS-2010B[b]	30-JAN-08	TO15DI	<0.005	<0.005	<0.005	<0.005	**0.021**	**0.0054**	**0.058**	**0.37**	<0.005	**1**	<0.005
W-2105[b]	30-JAN-08	TO15DI	<0.005	<0.005	<0.005	<0.005	**0.014**	<0.005	**0.01**	**0.022**	<0.005	**0.13**	<0.005

Table A-3. VOC analyses of vapor samples from treatment facility extraction wells.

Extraction Well	Date Sampled	Analytic Method	CCl_4 <-	$CHCl_3$ -	1,1-DCA -	1,2-DCA -	1,1-DCE PPM(V/V)	1,2-DCE -	Freon 113 -	PCE -	1,1,1-TCA -	TCE -	Freon 11 ->
VTF406-HS[g]													
W-217[b]	26-JUN-08	TO15DI	**0.33**	**0.037**	**0.015**	<0.005	**2**	**0.013**	**0.38**	**2.9**	<0.005	**2.8**	<0.005
W-514-2007A[b]	26-JUN-08	TO15DI	**0.018**	<0.005	<0.005	<0.005	**0.012**	<0.005	**0.01**	**0.066**	<0.005	**0.37**	**0.19**
W-514-2007B[b]	26-JUN-08	TO15DI	**0.11**	**0.018**	**0.0096**	<0.005	**1**	**0.01**	**0.082**	**1.4**	<0.005	**2.7**	**0.016**
VTF511[h]													
W-274[b]	04-OCT-06	TO15DI	**0.14**	**0.02**	<0.0062	<0.0062	**0.07**	<0.0062	**0.014**	**0.33**	<0.0062	**6.1**	**0.38**
W-1517[b]	20-DEC-07	TO15DI	**0.0066**	<0.005	<0.005	<0.005	**0.0068**	<0.005	<0.005	**0.022**	<0.005	**0.65**	**0.016**
W-2204[b]	01-AUG-07	TO15DI	**0.089**	**0.069**	<0.02	**0.091**	**0.039**	<0.02	<0.02	**0.26**	<0.02	**3.4**	<0.02
W-2206[b]	01-AUG-07	TO15DI	**0.024**	**0.057**	<0.02	**0.25**	<0.02	<0.02	<0.02	**0.27**	<0.02	**2.9**	<0.02
W-2207A[b]	26-FEB-08	TO15DI	<0.005	<0.005	<0.005	<0.005	**0.0066**	<0.005	<0.005	**0.0064**	<0.005	**1.9**	<0.005
W-2207B[b]	07-AUG-08	TO15DI	**0.032**	**0.023**	<0.0062	<0.0062	**0.083**	<0.0062	<0.0062	**0.044**	<0.0062	**4.2**	<0.0062
W-2208A[b]	26-FEB-08	TO15DI	**0.18**	**0.047**	<0.02	<0.02	**0.37**	<0.02	**0.032**	**0.11**	<0.02	**15**	**0.75**
W-2208B[b]	07-AUG-08	TO15DI	**0.56**	**0.18**	**0.17**	<0.072	**3.6**	**0.11**	**0.19**	**1.8**	<0.072	**58**	**0.19**
W-2205[b]	01-AUG-07	TO15DI	**0.087**	**0.14**	<0.031	**0.035**	**0.056**	<0.031	<0.031	**0.19**	<0.031	**5.5**	<0.031
VTF518-PZ[i]													
W-1615[b]	15-JAN-08	TO15DI	**0.1**	<0.025	<0.025	<0.025	**0.96**	<0.025	**0.96**	**8.7**	<0.025	**17**	<0.025
W-518-1913[b]	15-JAN-08	TO15DI	**0.012**	**0.006**	**0.007**	<0.005	**1.7**	<0.005	**0.063**	**2**	<0.005	**4.5**	<0.005
W-518-1914[b]	15-JAN-08	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	**0.98**	<0.005	**0.28**	<0.005
W-518-1915[b]	15-JAN-08	TO15DI	<0.0066	<0.0066	<0.0066	<0.0066	**0.29**	<0.0066	**0.01**	**1.6**	<0.0066	**5.9**	<0.0066
SVB-518-201[b]	15-JAN-08	TO15DI	<0.005	<0.005	<0.005	<0.005	**0.016**	<0.005	<0.005	**3.9**	<0.005	**0.34**	<0.005
SVB-518-204[b]	15-JAN-08	TO15DI	<0.02	<0.02	<0.02	<0.02	**0.051**	<0.02	<0.02	**2.4**	<0.02	**15**	<0.02
VTF5475[j]													
W-ETS-507[b]	06-SEP-07	TO15DI	<0.005	**0.85**	<0.005	**0.62**	<0.005	<0.005	<0.005	**0.15**	<0.005	**0.67**	<0.005
W-1605[b]	06-SEP-07	TO15DI	**0.0069**	**0.17**	<0.005	**0.15**	**0.11**	<0.005	**0.036**	**0.1**	<0.005	**0.85**	<0.005
W-1608[b]	06-SEP-07	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	**0.0061**	<0.005
W-2211[b]	12-OCT-07	TO15DI	<0.005	**0.49**	**0.012**	**0.15**	**0.14**	<0.005	**0.01**	**0.11**	<0.005	**1.2**	<0.005
W-2212[b]	12-OCT-07	TO15DI	**0.056**	**0.75**	**0.024**	**0.039**	**1.1**	<0.005	**0.16**	**0.66**	<0.005	**3.8**	<0.005
W-2302[b]	05-OCT-07	TO15DI	**0.032**	**0.47**	**0.022**	<0.017	**0.73**	<0.017	**0.063**	**0.86**	<0.017	**11**	<0.017
W-2303[b]	05-OCT-07	TO15DI	**0.009**	**0.88**	**0.038**	**0.083**	**0.4**	<0.005	**0.0088**	**0.36**	<0.005	**3.7**	<0.005
SVI-ETS-504[b]	12-OCT-07	TO15DI	<0.005	**0.32**	**0.0052**	**0.14**	**0.073**	<0.005	<0.005	**0.064**	<0.005	**0.34**	<0.005

Notes on following page.

Table A-3. VOC analyses of vapor samples from treatment facility extraction wells.

[a] VTFD-ETCS did not operate during reporting period due to the budget reduction.

[b] Most recent VOC vapor sample results available.

[c] VTFD-HPD did not operate during reporting period due to the budget reduction.

[d] VTFD-HS did not operate during reporting period due to the budget reduction.

[e] VTFE-ELM did not operate during reporting period due to the budget reduction.

[f] VTFE-HS did not operate during reporting period due to the budget reduction.

[g] VTF406-HS did not operate during reporting period due to recent flow totals being suspect.

[h] VTF511 did not operate during reporting period due to electronic operating system issues which will be investigated and repaired as manpower and priorities allow.

[i] VTF518-PZ did not operate during reporting period due to the budget reduction.

[j] VTF5475 did not operate during reporting period due to the budget reduction.

Notes:

CCl_4 = Carbon tetrachloride

$CHCl_3$ = Chloroform

1,1-DCA = 1,1-Dichloroethane

1,2-DCA = 1,2-Dichloroethane

1,1-DCE = 1,1-Dichloroethylene

1,2-DCE = 1,2-Dichloroethylene

Freon 113 = Trichlorotrifluoroethane

PCE = Tetrachloroethylene

1,1,1-TCA = 1,1,1-Trichloroethane

TCE = Trichloroethene

Freon 11 = Trichlorofluoromethane

VOC = volatile organic compound

Numbers in **BOLD** print indicate positive values above the detection limit.

Table A-4. Chromium analyses of influent, effluent and receiving water samples by treatment facility.

Treatment Facility	Sample Station	Date Sampled	Chromium (total)[a] mg/L (ppm)	Hexavalent Chromium mg/L (ppm)
TFB	TFB-E002	09-OCT-08	0.022	NA
	TFB-E002	04-NOV-08	0.019	NA
	TFB-E002	02-DEC-08	0.014	NA
TFC	TFC-E003	13-OCT-08	0.026	NA
	TFC-E003	04-NOV-08	0.024	NA
	TFC-E003	02-DEC-08	0.016	NA
TF406	PTU5-I	22-DEC-08	0.015	NA
	PTU5-E	22-DEC-08	0.015	NA

[a]A discharge limit of 0.050 ppm is set for total chromium during the dry season (April 1-November 30), and no limit is set for total chromium for the wet season (December 1-March 31); however, a limit of 0.022 ppm hexavalent chromium applies during the wet season. Discharge limits are defined in the Explanation of Significant Differences for metals discharge limits (April 1997).

Shaded values exceeded the discharge limit. See text for explanation.

Table A-5. Bioassay, turbidity, and chloride analyses of influent and effluent samples by treatment facility.

Treatment Facility	Sample Station	Date Sampled	Aquatic Bioassay[a] Percent Survival	Turbidity Nephelometric Turbidity Units (NTU)	Chloride (mg/L)
TF406	PTU5-E	22-DEC-08	100 (100)	NA	NA

[a]Test species was Fathead minnow and the test duration was 96 hours.
Percent survival in the control group samples shown in parentheses.
Note: NA = not applicable

Explanation of Abbreviations

TFA-I001 is a sampling port located immediately prior to the TFA Treatment System.
TFA-E001 is a sampling port located immediately after the TFA Treatment System, at the beginning of the discharge pipeline.
TFA receiving water is routinely sampled at the TFG-ASW location.
TFA-W-I is an influent sampling port prior to the sediment bag filter immediately following W-404.
TFA-W-E is an effluent sampling port immediately following the sediment bag filter; the water is then discharged to the Livermore Water Reclamation Plant (LWRP).
TFB-I002 is a sampling port located immediately prior to the TFB Treatment System.
TFB-E002 is a sampling port located immediately after the TFB Treatment System, at the beginning of the discharge pipeline.
TFB-R002 is a sampling station in the drainage ditch north of TFB, located approximately 75 ft downstream from the discharge point.
TFC-I003 is a sampling port located immediately prior to the TFC Treatment System.
TFC-E003 is a sampling port located immediately after the TFC Treatment System, at the beginning of the discharge pipeline.
TFC-R003 is a sampling station in Arroyo Las Positas, located approximately 75 ft downstream from the TFC discharge point.
TFD-I004 is a sampling port located immediately prior to the TFD Treatment System.
TFD-E004 is a sampling port located immediately after the TFD Treatment System, prior to discharge to the Drainage Retention Basin or to the underground discharge pipeline leading to Arroyo Las Positas.
TFD-R004 is now combined with and collected at the TFC-R003 location. Results are reported under TFC-R003, as approved by the RWQCB.
CRD1-I is a sampling port located immediately prior to the catalytic column in the Catalytic Reductive Dehalogenation treatment unit 1 (CRD1).
CRD1-E is the effluent from the catalytic column in the Catalytic Reductive Dehalogenation treatment unit 1 (CRD1) and then reinjected at W-1302.
CRD2-I is a sampling port located immediately prior to the catalytic columns in the Catalytic Reductive Dehalogenation treatment unit 2 (CRD2).
CRD2-E is the effluent from the last catalytic column in the Catalytic Reductive Dehalogenation treatment unit 2 (CRD2) and then reinjected at W-1610.
GTU01-I is a sampling port located immediately prior to GTU01, which is currently operating in the TFG-1 area.
GTU01-E is a sampling port located immediately after GTU01, which is currently operating in the TFG-1 area.
GTU01 receiving water is routinely sampled at the TFG-ASW location.
GTU03-I is a sampling port located immediately prior to GTU03, which is currently operating in the TF406 Northwest area.
GTU03-E is a sampling port located immediately after GTU03, which is currently operating in the TF406 Northwest area.
GTU03 receiving water is routinely sampled at the TFC-R003 location.
GTU07-I is a sampling port located immediately prior to GTU07, which is currently operating in the TFE Hotspot area.
GTU07-E is a sampling port located immediately after GTU07, which is currently operating in the TFE Hotspot area.
GTU07 receiving water is routinely sampled at the TFC-R003 location.
GTU09-I is a sampling port located immediately prior to GTU09, which is currently operating in the TF5475 area.
GTU09-E is a sampling port located immediately after GTU09, which is currently operating in the TF5475 area.
GTU09 receiving water is routinely sampled at the TFC-R003 location.
MTU02-I is a sampling port located immediately prior to MTU02, which is currently operating in the TFG North area.
MTU02-E is a sampling port located immediately after MTU02, which is currently operating in the TFG North area.
MTU02 receiving water is routinely sampled at the TFC-R003 location.
MTU03-I is a sampling port located immediately prior to MTU03, which is currently operating in the TFE Southwest area.
MTU03-E is a sampling port located immediately after MTU03, which is currently operating in the TFE Southwest area.
MTU03 receiving water is routinely sampled at the TFC-R003 location.
MTU04-I is a sampling port located immediately prior to MTU04, which is currently operating in the TFE Southeast area.
MTU04-E is a sampling port located immediately after MTU04, which is currently operating in the TFE Southeast area.
MTU04 receiving water is routinely sampled at the TFC-R003 location.
MTU05-I is a sampling port located immediately prior to MTU05, which is currently operating in the TFE West area.
MTU05-E is a sampling port located immediately after MTU05, which is currently operating in the TFE West area.
MTU05 receiving water is routinely sampled at the TFC-R003 location.

Explanation of Abbreviations

MTU1-I is a sampling port located immediately prior to MTU1, which is currently operating in the TFC East area.
MTU1-E is a sampling port located immediately after MTU1, which is currently operating in the TFC East area.
MTU1 receiving water is routinely sampled at the TFC-R003 location.
PTU1-I is a sampling port located immediately prior to PTU-1, which is currently operating in the TFC Southeast area.
PTU1-E is a sampling port located immediately after PTU-1, which is currently operating in the TFC Southeast area.
PTU1 receiving water is routinely sampled at the TFC-R003 location.
PTU2-I is a sampling port located immediately prior to PTU-2, which is currently operating in the TFD South area.
PTU2-E is a sampling port located immediately after PTU-2, which is currently operating in the TFD South area.
PTU2 receiving water is routinely sampled at TFC-R003 during the wet season.
PTU3-I is a sampling port located immediately prior to PTU-3, which is currently operating in the TFE East area.
PTU3-E is a sampling port located immediately after PTU-3, which is currently operating in the TFE East area.
PTU3 receiving water is routinely sampled at the TFC-R003 location.
PTU5-I is a sampling port located immediately prior to PTU-5, which is currently operating in the TF406 extraction location.
PTU5-E is a sampling port located immediately after PTU-5, which is currently operating in the TF406 extraction location.
PTU5 receiving water is routinely sampled at the TFC-R003 location.
PTU6-I is a sampling port located immediately prior to PTU-6, which is currently operating in the TFD West area.
PTU6-E is a sampling port located immediately after PTU-6, which is currently operating in the TFD West area.
PTU6 receiving water is routinely sampled at the TFC-R003 location.
PTU8-I is a sampling port located immediately prior to PTU-8, which is currently operating in the TFD East area.
PTU8-E is a sampling port located immediately after PTU-8, which is currently operating in the TFD East area.
PTU8 receiving water is routinely sampled at the TFC-R003 location.
PTU9-I is a sampling port located immediately prior to PTU-9, which is currently operating in the TFE Northwest area.
PTU9-E is a sampling port located immediately after PTU-9, which is currently operating in the TFE Northwest area.
PTU9 receiving water is routinely sampled at the TFC-R003 location.
PTU10-I is a sampling port located immediately prior to PTU-10, which is currently operating in the TFD Helipad area.
PTU10-E is a sampling port located immediately after PTU-10, which is currently operating in the TFD Helipad area.
PTU10 receiving water is routinely sampled at the TFC-R003 location.
PTU11-I is a sampling port located immediately prior to PTU-11, which is currently operating in the TFD Southeast area.
PTU11-E is a sampling port located immediately after PTU-11, which is currently operating in the TFD Southeast area.
PTU11 receiving water is routinely sampled at the TFC-R003 location.
PTU12-I is a sampling port located immediately prior to PTU-12, which is currently operating in the TFD Southshore area.
PTU12-E is a sampling port located immediately after PTU-12, which is currently operating in the TFD Southshore area.
PTU12 receiving water is routinely sampled at the TFC-R003 location.
STU06-I is a sampling port located immediately prior to STU06, which is operating in the TFA East area.
STU06-E is a sampling port located immediately after STU06, which is operating in the TFA East area.
STU06 receiving water is routinely sampled at the TFG-ASW location.
STU09-I is a sampling port located immediately prior to STU09, which is currently operating in the TF518-North area.
STU09-E is a sampling port located immediately after STU09, which is currently operating in the TF518-North area.
STU09 receiving water is routinely sampled at the TFC-R003 location.

Addendum to Attachment A

Treatment Facility Monitor and Extraction Well Data

Addendum. VOC analyses for nearby monitor wells and extraction wells associated with treatment facilities restarted during the 4th quarter of 2008.

Sample Station	Date Sampled	Analytic Method	CCl4	CHCl3	1,1-DCA	1,2-DCA	1,1-DCE	1,2-DCE	Freon 113	PCE	1,1,1-TCA	TCE	Freon 11
			<-	-	-	-	ug/L (ppb)	-	-	-	-	-	- >
TFA-E													
W-254[a]	8-Jul-08	E601	<0.5	<0.5	**0.61**	<0.5	**0.97**	<1	<0.5	**65**	<0.5	**1.7**	<0.5
W-254[a]	19-Nov-08	E601	<0.5	**0.54**	**0.6**	<0.5	**0.66**	<1	<0.5	**73**	<0.5	**1.8**	<0.5
TF406													
W-1309[a]	12-May-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**6.5**	<0.5
W-1309[a]	16-Oct-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**8.4**	<0.5
W-1310[a]	29-Jan-08	E601	<0.5	**0.86**	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**7.2**	<0.5
W-1310[a]	16-Oct-08	E601	**0.51**	**1**	<0.5	<0.5	**0.59**	<1	**0.68**	<0.5	<0.5	**4.3**	<0.5
W-1310[a]	17-Nov-08	E601	**0.52**	**0.9**	<0.5	<0.5	<0.5	<1	**0.62**	<0.5	<0.5	**3.8**	<0.5
W-1310[a]	16-Dec-08	E601	**0.63**	**1.1**	<0.5	<0.5	**0.65**	<1	**0.7**	**0.98**	<0.5	**7**	<0.5
GSW-445[a]	12-May-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**2.5**	<0.5
GSW-445[a]	16-Oct-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**2.9**	<0.5
W-1519[b]	4-Mar-08	E601	**1.5**	**0.59**	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**18**	<0.5
W-1519[b]	19-Aug-08	E601	**0.56**	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**7.8**	<0.5
W-225[b]	18-May-06	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**1.2**	<0.5
W-225[b]	5-Nov-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	**1**	<0.5	<0.5	**1.4**	<0.5
W-256[b]	11-Jul-07	E601	**8.8**	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**1.3**	<0.5
W-256[b]	15-Sep-08	E601	**9**	<0.5	<0.5	<0.5	**0.77**	<1	**1**	**2.2**	<0.5	**8.2**	<0.5
W-509[b]	12-Feb-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**6.1**	<0.5
W-509[b, c]	12-Feb-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**5.9**	<0.5
W-509[b]	18-Sep-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**6.5**	<0.5
W-509[b]	29-Oct-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**6.3**	<0.5
W-1112[b]	3-Apr-08	E601	**0.59**	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**9.2**	<0.5
W-1112[b]	2-Sep-08	E601	**0.6**	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<2	<0.5	**10**	<0.5
W-1112[b, c]	2-Sep-08	E601	**0.6**	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**10**	<1
W-1113[b]	12-Feb-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**6.3**	<0.5
W-1113[b]	24-Nov-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**1.2**	<0.5

Notes on following page.

Addendum. VOC analyses for nearby monitor wells and extraction wells associated with treatment facilities restarted during the 4th quarter of 2008.

[a] Extraction well analytical results.

[b] Most recent analytical results for monitor well in nearby vicinity of treatment facility.

[c] Monitor well colocated analytical results for quality control.

Notes:

CCl_4 = Carbon tetrachloride

$CHCl_3$ = Chloroform

1,1-DCA = 1,1-Dichloroethane

1,2-DCA = 1,2-Dichloroethane

1,1-DCE = 1,1-Dichloroethylene

1,2-DCE = 1,2-Dichloroethylene

Freon 113 = Trichlorotrifluoroethane

PCE = Tetrachloroethylene

1,1,1-TCA = 1,1,1-Trichloroethane

TCE = Trichloroethene

Freon 11 = Trichlorofluoromethane

VOC = volatile organic compound

Numbers in **BOLD** print indicate positive values above the detection limit.

Attachment B

Self-Monitoring Reports

Self-Monitoring Report
LLNL Treatment Facility A (TFA)
AREA TFA

1. Reporting Period: Business Month **October** Year **2008**

2. Dates (in **bold** and underline) treated ground water was discharged

October	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

Total monthly time facility operated (hours): **0**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**
Influent pH:
Effluent pH:
Effluent Temperature (°C):

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-408	**0**	**0.0**
W-109	**0**	**0.0**
W-457	**0**	**0.0**
W-522	**0**	**0.0**
W-614	**0**	**0.0**
W-712	**0**	**0.0**
W-714	**0**	**0.0**
W-904	**0**	**0.0**
W-415	**0**	**0.0**
W-518	**0**	**0.0**
W-903	**0**	**0.0**
W-605	**0**	**0.0**
W-262	**0**	**0.0**
W-1004	**0**	**0.0**
W-1009	**0**	**0.0**
W-1001	**0**	**0.0**
Total:	**0**	**0.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Seco	**TFG-ASW**	**0**

Self-Monitoring Report (cont'd)
LLNL Treatment Facility A (TFA)
AREA TFA

6. Comments:

This treatment facility was shut down on 8-11-08 due to a problem with the facility control system. It has not been restarted due to a FY 2008 funding reduction. Facilities will be restarted in a prioritized order, pending available staff and resources.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Scott Cawagas Jr. Date: **11-03-2008**

Self-Monitoring Report
LLNL Treatment Facility A (TFA)
AREA TFA

1. Reporting Period: Business Month **November** Year **2008**

2. Dates (in **bold** and underline) treated ground water was discharged

November **01** **02** **03** **04** **05** **06** **07** **08** **09** **10** **11** 12 13 14 15
16 **17** **18** **19** **20** **21** **22** **23** **24** **25** **26**

Total monthly time facility operated (hours): **0**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**
Influent pH:
Effluent pH:
Effluent Temperature (°C):

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-408	**0**	**0.0**
W-109	**0**	**0.0**
W-457	**0**	**0.0**
W-522	**0**	**0.0**
W-614	**0**	**0.0**
W-712	**0**	**0.0**
W-714	**0**	**0.0**
W-904	**0**	**0.0**
W-415	**0**	**0.0**
W-518	**0**	**0.0**
W-903	**0**	**0.0**
W-605	**0**	**0.0**
W-262	**0**	**0.0**
W-1004	**0**	**0.0**
W-1009	**0**	**0.0**
W-1001	**0**	**0.0**
Total:	**0**	**0.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
West Perimeter Drainage Channel	**TFB-R002**	**0**

Self-Monitoring Report (cont'd)
LLNL Treatment Facility A (TFA)
AREA TFA

Arroyo Seco	TFG-ASW	0

6. Comments:

This treatment facility was shut down on 8-11-08 due to a problem with the facility control system. It has not been restarted due to a FY 2008 funding reduction. Facilities will be restarted in a prioritized order, pending available staff and resources.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Scott Cawagas Sr. Date: **12-02-2008**

Self-Monitoring Report
LLNL Treatment Facility A (TFA)
AREA TFA

1. Reporting Period: Business Month **December** Year **2008**

2. Dates (in **bold** and underline) treated ground water was discharged

November	27	28	29	30											
December	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

Total monthly time facility operated (hours): **0**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**
Influent pH:
Effluent pH:
Effluent Temperature (°C):

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-408	**0**	**0.0**
W-109	**0**	**0.0**
W-457	**0**	**0.0**
W-522	**0**	**0.0**
W-614	**0**	**0.0**
W-712	**0**	**0.0**
W-714	**0**	**0.0**
W-904	**0**	**0.0**
W-415	**0**	**0.0**
W-518	**0**	**0.0**
W-903	**0**	**0.0**
W-605	**0**	**0.0**
W-262	**0**	**0.0**
W-1004	**0**	**0.0**
W-1009	**0**	**0.0**
W-1001	**0**	**0.0**
Total:	**0**	**0.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
West Perimeter Drainage Channel	**TFB-R002**	**0**

Self-Monitoring Report (cont'd)
LLNL Treatment Facility A (TFA)
AREA TFA

Arroyo Seco	TFG-ASW	0

6. Comments:

This treatment facility was shut down on 8-11-08 due to a problem with the facility control system. It has not been restarted due to a FY 2008 funding reduction. Facilities will be restarted in a prioritized order, pending available staff and resources.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **12-31-2008**

Self-Monitoring Report
LLNL Solar Treatment Unit 06 (STU06)
AREA TFA-E

1. Reporting Period: Business Month **October** Year **2008**

2. Dates (in **bold** and underline) treated ground water was discharged

October	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

Total monthly time facility operated (hours): **0**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**
Influent pH:
Effluent pH:
Effluent Temperature (°C):

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-254	**0**	**0.0**
Total:	**0**	**0.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Seco	**TFG-ASW**	**0**

6. Comments:

System went down on 9-4-08 due to possible transducer failure. It has not been restarted due to a FY 2008 funding reduction. Facilities will be restarted in a prioritized order, pending available staff and resources.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **11-03-2008**

Self-Monitoring Report
LLNL Solar Treatment Unit 06 (STU06)
AREA TFA-E

1. Reporting Period: Business Month **November** Year **2008**

2. Dates (in **bold** and underline) treated ground water was discharged

November 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
16 17 18 **19** **20** **21** 22 23 **24** **25** **26**

Total monthly time facility operated (hours): **23**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**11-19-2008**
Influent pH:	**7.0**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**20.1**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-254	**4,223**	**2.9**
Total:	**4,223**	**2.9**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Seco	**TFG-ASW**	**4,223**

6. Comments:

As part of facility re-activation, two new Shurflo submersible pumps were installed in W-254. In addition, the facility operated on a daily basis only and other maintenance items were addressed.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **12-01-2008**

Self-Monitoring Report
LLNL Solar Treatment Unit 06 (STU06)
AREA TFA-E

1. Reporting Period: Business Month **December** Year **2008**

2. Dates (in **bold** and underline) treated ground water was discharged

November	27	28	29	30											
December	**01**	**02**	03	04	05	06	07	08	**09**	10	**11**	**12**	**13**	**14**	**15**
	16	**17**	**18**	**19**	20	21	22	23	24	25	26	27	28	**29**	**30**	**31**

Total monthly time facility operated (hours): **98**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**12-09-2008**
Influent pH:	**7.0**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**15.8**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-254	**17,977**	**3.2**
Total:	**17,977**	**3.2**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Seco	**TFG-ASW**	**17,977**

6. Comments:

System down from 11-27-08 through 11-30-08 awaiting software reloading. Software reloaded and facility started on 12-1-08. System secured on 12-2-08 to load code and replace batteries. Batteries replaced and system started on 12-9-08 for self-monitoring sampling only. Secured on 12-9-08. Start system on 12-11-08. Secured system on 12-19-08 for freeze protection. Restarted system on 12-29-08.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **12-31-2008**

Self-Monitoring Report
LLNL Treatment Facility B (TFB)
AREA TFB

1. Reporting Period: Business Month **October** Year **2008**

2. Dates (in **bold** and underline) treated ground water was discharged

October **01 02 03** 04 05 **06 07 08 09 10 11 12 13 14 15**
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

Total monthly time facility operated (hours): **688**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**10-09-2008**
Influent pH:	**7.5**
Effluent pH:	**8.0**
Effluent Temperature (°C):	**19.7**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-357	**228,700**	**5.8**
W-621	**317,500**	**7.7**
W-620	**80,800**	**3.4**
W-610	**213,200**	**5.3**
W-704	**249,400**	**6.1**
W-655	**269,100**	**6.8**
W-1423	**326,800**	**8.5**
Total:	**1,685,500**	**43.6**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
West Perimeter Drainage Channel	**TFB-R002**	**1,685,500**

6. Comments:

Facility down from 10-3-08 through 10-6-08 due to low air flow. W-620 down intermittently from 10-16-08 through 10-21-08 due to low water level. W-620 went down on 10-28-08 due to suspected flow meter failure.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **10-31-2008**

Land Observation Report date:
TFB-R002 - West Perimeter Drainage Channel

1. Reporting Period: Business Month **October** Year **2008**

2. Date compliance sampling performed **10-09-2008**

3. Weather Conditions:

Average air tempertaure (°C):	**17.4**
6-day total precipitation (in):	**.25**
Average wind speed/direction (mph):	**4/ S**

4. Receiving Data:

Sample Location	pH	Temperature (C)
Receiving Water	**N/M**	**N/M**

5. Land Observations, as "Yes" or "No", for reporting month:

Visual Observations	Effluent	Receiving Water
Floating and Suspended Materials of Waste Origin	**No**	**No**
Odor	**No**	**No**
Discoloration and Turbidity	Not Required	**No**
Evidence of Beneficial Water Use	Not Required	**No**

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Scott Cavagnaro Date: **10-31-2008**

Self-Monitoring Report
LLNL Treatment Facility B (TFB)
AREA TFB

1. Reporting Period: Business Month **November** Year **2008**

2. Dates (in **bold** and underline) treated ground water was discharged

November **01 02 03 04 05 06 07 08 09 10 11 12 13 14 15**
16 17 18 19 20 21 22 23 24 25 26

Total monthly time facility operated (hours): **631**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**11-04-2008**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**18.8**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-357	**213,700**	**5.9**
W-621	**281,000**	**7.5**
W-620	**0**	**0.0**
W-610	**197,700**	**5.2**
W-704	**230,700**	**6.1**
W-655	**246,100**	**6.7**
W-1423	**270,100**	**7.1**
Total:	**1,439,300**	**38.5**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
West Perimeter Drainage Channel	**TFB-R002**	**1,439,300**

6. Comments:
Began wet season hexavalent chromium on 11-24-08.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Scott Cawagas Jr. Date: **11-26-2008**

Land Observation Report date:
TFB-R002 - West Perimeter Drainage Channel

1. Reporting Period: Business Month **November** Year **2008**

2. Date compliance sampling performed **11-04-2008**

3. Weather Conditions:

Average air tempertaure (°C):	**14.6**
6-day total precipitation (in):	**1.21**
Average wind speed/direction (mph):	**4/ SSW**

4. Receiving Data:

Sample Location	pH	Temperature (C)
Receiving Water	**N/M**	**N/M**

5. Land Observations, as "Yes" or "No", for reporting month:

Visual Observations	Effluent	Receiving Water
Floating and Suspended Materials of Waste Origin	**No**	**No**
Odor	**No**	**No**
Discoloration and Turbidity	Not Required	**No**
Evidence of Beneficial Water Use	Not Required	**No**

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Scott Kawaguchi Date: **11-26-2008**

Self-Monitoring Report
LLNL Treatment Facility B (TFB)
AREA TFB

1. Reporting Period: Business Month **December** Year **2008**

2. Dates (in **bold** and underline) treated ground water was discharged

November **27 28 29 30**
December **01 02 03 04 05 06 07 08 09 10 11 12 13 14 15**
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

Total monthly time facility operated (hours): **794**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**12-02-2008**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**18.2**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-357	**254,900**	**5.8**
W-621	**359,400**	**7.4**
W-620	**0**	**0.0**
W-610	**258,000**	**5.4**
W-704	**292,800**	**6.2**
W-655	**223,000**	**6.4**
W-1423	**326,200**	**7.0**
Total:	**1,714,300**	**38.2**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
West Perimeter Drainage Channel	**TFB-R002**	**1,714,300**

6. Comments:

Facility down due to watchdog alarm on 12-17-08. Restarted on 12-18-08. Facility down on 12-28-08 due to low air flow. Restarted on 12-29-08. W-655 down n 12-18-08 due to pipeline break. Pipeline repaired and W-655 restarted on 12-29-08.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Self-Monitoring Report (cont'd)
LLNL Treatment Facility B (TFB)
AREA TFB

Operator Signature: _____ Date: **12-31-2008**

Land Observation Report date:
TFB-R002 - West Perimeter Drainage Channel

1. Reporting Period: Business Month **December** Year **2008**

2. Date compliance sampling performed **12-02-2008**

3. Weather Conditions:

Average air tempertaure (°C):	**11**
6-day total precipitation (in):	**0**
Average wind speed/direction (mph):	**3/ SSE**

4. Receiving Data:

Sample Location	pH	Temperature (C)
Receiving Water	**N/M**	**N/M**

5. Land Observations, as "Yes" or "No", for reporting month:

Visual Observations	Effluent	Receiving Water
Floating and Suspended Materials of Waste Origin	**No**	**No**
Odor	**No**	**No**
Discoloration and Turbidity	Not Required	**No**
Evidence of Beneficial Water Use	Not Required	**No**

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Scott Cawagas Jr. Date: **12-31-2008**

Self-Monitoring Report
LLNL Treatment Facility C (TFC)
AREA TFC

1. Reporting Period: Business Month **October** Year **2008**

2. Dates (in **bold** and underline) treated ground water was discharged

October **01 02 03 04 05 06 07 08 09 10 11 12 13 14 15**
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

Total monthly time facility operated (hours): **745**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**10-13-2008**
Influent pH:	**7.0**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**19**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-701	**592,389**	**13.0**
W-1015	**293,657**	**6.4**
W-1116	**77,765**	**1.7**
W-1103	**114,264**	**2.5**
W-1102	**141,850**	**3.8**
W-1104	**1,229,838**	**27.6**
Total:	**2,449,763**	**55.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**2,449,763**

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **10-31-2008**

Land Observation Report date:
TFC-R003 - Arroyo Las Positas

1. Reporting Period: Business Month **October** Year **2008**

2. Date compliance sampling performed **10-13-2008**

3. Weather Conditions:

Average air tempertaure (°C):	**15.4**
6-day total precipitation (in):	**0**
Average wind speed/direction (mph):	**7/ SSW**

4. Receiving Data:

Sample Location	pH	Temperature (C)
Receiving Water	**N/M**	**N/M**

5. Land Observations, as "Yes" or "No", for reporting month:

Visual Observations	Effluent	Receiving Water
Floating and Suspended Materials of Waste Origin	**No**	**No**
Odor	**No**	**No**
Discoloration and Turbidity	Not Required	**No**
Evidence of Beneficial Water Use	Not Required	**No**

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **10-31-2008**

Self-Monitoring Report
LLNL Treatment Facility C (TFC)
AREA TFC

1. Reporting Period: Business Month **November** Year **2008**

2. Dates (in **bold** and underline) treated ground water was discharged

November **01** **02** **03** **04** **05** **06** **07** **08** **09** **10** **11** 12 13 14 15
16 17 18 19 **20** **21** **22** **23** **24** **25** **26**

Total monthly time facility operated (hours): **544**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**11-04-2008**
Influent pH:	**7.0**
Effluent pH:	**7.5**
Effluent Temperature (^{o}C):	**17.8**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-701	**433,003**	**13.2**
W-1015	**213,524**	**6.5**
W-1116	**54,926**	**1.7**
W-1103	**91,170**	**2.9**
W-1102	**92,269**	**3.4**
W-1104	**896,954**	**27.4**
Total:	**1,781,846**	**55.1**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**1,781,846**

6. Comments:
Wet season hexavalent chromium treatment started on 11-25-08. System went down on 11-16-08 due to computer problem. Restarted on 11-20-08.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Scott Gawarecki Date: **11-26-2008**

Land Observation Report date:
TFC-R003 - Arroyo Las Positas

1. Reporting Period: Business Month **November** Year **2008**

2. Date compliance sampling performed **11-04-2008**

3. Weather Conditions:

Average air tempertaure (°C):	**14.6**
6-day total precipitation (in):	**1.21**
Average wind speed/direction (mph):	**4/ SSW**

4. Receiving Data:

Sample Location	pH	Temperature (C)
Receiving Water	**N/M**	**N/M**

5. Land Observations, as "Yes" or "No", for reporting month:

Visual Observations	Effluent	Receiving Water
Floating and Suspended Materials of Waste Origin	**No**	**No**
Odor	**No**	**No**
Discoloration and Turbidity	Not Required	**No**
Evidence of Beneficial Water Use	Not Required	**No**

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **11-26-2008**

Self-Monitoring Report
LLNL Treatment Facility C (TFC)
AREA TFC

1. Reporting Period: Business Month **December** Year **2008**

2. Dates (in **bold** and underline) treated ground water was discharged

November **27 28 29 30**
December **01 02 03 04 05 06 07 08 09 10 11 12 13 14 15**
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

Total monthly time facility operated (hours): **838**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**12-02-2008**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**19.1**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-701	**647,187**	**13.3**
W-1015	**320,077**	**6.4**
W-1116	**94,346**	**1.8**
W-1103	**144,642**	**2.7**
W-1102	**165,733**	**3.4**
W-1104	**1,373,432**	**27.6**
Total:	**2,745,417**	**55.2**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**2,745,417**

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **12-31-2008**

Land Observation Report date:
TFC-R003 - Arroyo Las Positas

1. Reporting Period: Business Month **December** Year **2008**

2. Date compliance sampling performed **12-02-2008**

3. Weather Conditions:

Average air tempertaure (°C):	**11**
6-day total precipitation (in):	**0**
Average wind speed/direction (mph):	**3/ SSE**

4. Receiving Data:

Sample Location	pH	Temperature (C)
Receiving Water	**N/M**	**N/M**

5. Land Observations, as "Yes" or "No", for reporting month:

Visual Observations	Effluent	Receiving Water
Floating and Suspended Materials of Waste Origin	**No**	**No**
Odor	**No**	**No**
Discoloration and Turbidity	Not Required	**No**
Evidence of Beneficial Water Use	Not Required	**No**

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Scott Cawagas Jr. Date: **12-31-2008**

Self-Monitoring Report
LLNL Mini Treatment Unit 1 (MTU1)
AREA TFC-E

1. Reporting Period: Business Month **October** Year **2008**

2. Dates (in **bold** and underline) treated ground water was discharged

October	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

Total monthly time facility operated (hours): **0**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**
Influent pH:
Effluent pH:
Effluent Temperature (°C):

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-413	**0**	**0.0**
W-368	**0**	**0.0**
Total:	**0**	**0.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**0**

6. Comments:
This treatment facility was shut down on 2-27-08 due to a FY 2008 funding reduction. Facilities will be restarted in a prioritized order, pending available staff and resources.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Scott Carrigan Jr. Date: **11-03-2008**

Self-Monitoring Report
LLNL Mini Treatment Unit 1 (MTU1)
AREA TFC-E

1. Reporting Period: Business Month **November** Year **2008**

2. Dates (in **bold** and underline) treated ground water was discharged

November 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
16 17 18 19 20 21 22 23 24 25 26

Total monthly time facility operated (hours): **0**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**
Influent pH:
Effluent pH:
Effluent Temperature (°C):

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-413	**0**	**0.0**
W-368	**0**	**0.0**
Total:	**0**	**0.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**0**

6. Comments:
This treatment facility was shut down on 2-27-08 due to a FY 2008 funding reduction. Facilities will be restarted in a prioritized order, pending available staff and resources.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Scott Kawaguchi Date: **12-02-2008**

Self-Monitoring Report
LLNL Mini Treatment Unit 1 (MTU1)
AREA TFC-E

1. Reporting Period: Business Month **December** Year **2008**

2. Dates (in **bold** and underline) treated ground water was discharged

November	27	28	29	30											
December	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

Total monthly time facility operated (hours): **0**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**
Influent pH:
Effluent pH:
Effluent Temperature (°C):

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-413	**0**	**0.0**
W-368	**0**	**0.0**
Total:	**0**	**0.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**0**

6. Comments:
This treatment facility was shut down on 2-27-08 due to a FY 2008 funding reduction. Facilities will be restarted in a prioritized order, pending available staff and resources.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **12-31-2008**

Self-Monitoring Report
LLNL Portable Treatment Unit 1 (PTU1)
AREA TFC-SE

1. Reporting Period: Business Month **October** Year **2008**

2. Dates (in **bold** and underline) treated ground water was discharged

October	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

Total monthly time facility operated (hours): **0**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**
Influent pH:
Effluent pH:
Effluent Temperature (°C):

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1213	**0**	**0.0**
W-2201	**0**	**0.0**
Total:	**0**	**0.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**0**

6. Comments:
This treatment facility was shut down on 5-9-08 due to a FY 2008 funding reduction. Facilities will be restarted in a prioritized order, pending available staff and resources.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **11-03-2008**

Self-Monitoring Report
LLNL Portable Treatment Unit 1 (PTU1)
AREA TFC-SE

1. Reporting Period: Business Month **November** Year **2008**

2. Dates (in **bold** and underline) treated ground water was discharged

November 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
16 17 18 19 20 21 22 23 24 25 26

Total monthly time facility operated (hours): **0**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**
Influent pH:
Effluent pH:
Effluent Temperature (°C):

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1213	**0**	**0.0**
W-2201	**0**	**0.0**
Total:	**0**	**0.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**0**

6. Comments:
This treatment facility was shut down on 5-9-08 due to a FY 2008 funding reduction. Facilities will be restarted in a prioritized order, pending available staff and resources.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Scott Cavagnaro Date: **12-01-2008**

Self-Monitoring Report
LLNL Portable Treatment Unit 1 (PTU1)
AREA TFC-SE

1. Reporting Period: Business Month **December** Year **2008**

2. Dates (in **bold** and underline) treated ground water was discharged

November	27	28	29	30												
December	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

Total monthly time facility operated (hours): **0**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**
Influent pH:
Effluent pH:
Effluent Temperature (°C):

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1213	**0**	**0.0**
W-2201	**0**	**0.0**
Total:	**0**	**0.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**0**

6. Comments:
This treatment facility was shut down on 5-9-08 due to a FY 2008 funding reduction. Facilities will be restarted in a prioritized order, pending available staff and resources.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **12-31-2008**

Self-Monitoring Report
LLNL Treatment Facility D (TFD)
AREA TFD

1. Reporting Period: Business Month **October** Year **2008**

2. Dates (in **bold** and underline) treated ground water was discharged

October 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

Total monthly time facility operated (hours): **0**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**
Influent pH:
Effluent pH:
Effluent Temperature (°C):

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-653	**0**	**0.0**
W-351	**0**	**0.0**
W-907-2	**0**	**0.0**
W-906	**0**	**0.0**
W-1206	**0**	**0.0**
W-1208	**0**	**0.0**
W-2102	**0**	**0.0**
W-2011	**0**	**0.0**
W-2101	**0**	**0.0**
Total:	**0**	**0.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**0**

6. Comments:
This treatment facility was shut down on 7-25-08 due to a FY 2008 funding reduction. Facilities will be restarted in a prioritized order, pending available staff and resources.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Self-Monitoring Report (cont'd)
LLNL Treatment Facility D (TFD)
AREA TFD

Operator Signature: _____ Date: **11-03-2008**

Self-Monitoring Report
LLNL Treatment Facility D (TFD)
AREA TFD

1. Reporting Period: Business Month **November** Year **2008**

2. Dates (in **bold** and underline) treated ground water was discharged

November **01** **02** **03** **04** **05** **06** **07** **08** **09** **10** **11** 12 13 14 15
16 **17** **18** **19** **20** **21** **22** **23** **24** **25** **26**

Total monthly time facility operated (hours): **0**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**
Influent pH:
Effluent pH:
Effluent Temperature (°C):

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-653	**0**	**0.0**
W-351	**0**	**0.0**
W-907-2	**0**	**0.0**
W-906	**0**	**0.0**
W-1206	**0**	**0.0**
W-1208	**0**	**0.0**
W-2102	**0**	**0.0**
W-2011	**0**	**0.0**
W-2101	**0**	**0.0**
Total:	**0**	**0.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**0**

6. Comments:
This treatment facility was shut down on 7-25-08 due to a FY 2008 funding reduction. Facilities will be restarted in a prioritized order, pending available staff and resources.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Self-Monitoring Report (cont'd)
LLNL Treatment Facility D (TFD)
AREA TFD

Operator Signature: _____ Date: **12-02-2008**

Self-Monitoring Report
LLNL Treatment Facility D (TFD)
AREA TFD

1. Reporting Period: Business Month **December** Year **2008**

2. Dates (in **bold** and underline) treated ground water was discharged

November	27	28	29	30											
December	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

Total monthly time facility operated (hours): **0**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**
Influent pH:
Effluent pH:
Effluent Temperature (°C):

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-653	**0**	**0.0**
W-351	**0**	**0.0**
W-907-2	**0**	**0.0**
W-906	**0**	**0.0**
W-1206	**0**	**0.0**
W-1208	**0**	**0.0**
W-2102	**0**	**0.0**
W-2011	**0**	**0.0**
W-2101	**0**	**0.0**
Total:	**0**	**0.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**0**

6. Comments:
This treatment facility was shut down on 7-25-08 due to a FY 2008 funding reduction. Facilities will be restarted in a prioritized order, pending available staff and resources.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Self-Monitoring Report (cont'd)
LLNL Treatment Facility D (TFD)
AREA TFD

Operator Signature: _____ Date: **12-31-2008**

Self-Monitoring Report
LLNL Portable Treatment Unit 8 (PTU8)
AREA TFD-E

1. Reporting Period: Business Month **October** Year **2008**

2. Dates (in **bold** and underline) treated ground water was discharged

October **01 02 03 04 05 06 07 08 09 10 11 12 13 14 15**
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

Total monthly time facility operated (hours): **755**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**10-14-2008**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**17.7**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1255	**0**	**0.0**
W-1253	**0**	**0.0**
W-1307	**277,000**	**6.3**
W-1303	**43,400**	**0.9**
W-1306	**12,100**	**0.3**
W-1404	**300**	**0.0**
W-1550	**112,800**	**2.6**
W-1301	**61,700**	**1.2**
W-2006	**1,900**	**0.0**
W-2203	**53,800**	**1.1**
Total:	**563,000**	**12.4**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**563,000**

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Scott Cavagnaro Date: **10-31-2008**

Self-Monitoring Report
LLNL Portable Treatment Unit 8 (PTU8)
AREA TFD-E

1. Reporting Period: Business Month **November** Year **2008**

2. Dates (in **bold** and underline) treated ground water was discharged

November **01 02 03 04 05 06 07 08 09 10 11 12 13 14 15**
16 17 18 19 20 21 22 23 24 25 26

Total monthly time facility operated (hours): **630**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**11-05-2008**
Influent pH:	**7.0**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**18.9**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1255	**0**	**0.0**
W-1253	**0**	**0.0**
W-1307	**237,100**	**6.3**
W-1303	**35,900**	**0.9**
W-1306	**9,600**	**0.3**
W-1404	**0**	**0.0**
W-1550	**94,400**	**2.6**
W-1301	**52,400**	**1.3**
W-2006	**1,300**	**0.0**
W-2203	**47,100**	**1.4**
Total:	**477,800**	**12.8**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**477,800**

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Scott Carnagey Date: **11-26-2008**

Self-Monitoring Report
LLNL Portable Treatment Unit 8 (PTU8)
AREA TFD-E

1. Reporting Period: Business Month **December** Year **2008**

2. Dates (in **bold** and underline) treated ground water was discharged

November **27 28 29 30**
December **01 02 03 04 05 06 07 08 09 10 11 12 13 14 15**
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

Total monthly time facility operated (hours): **853**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**12-03-2008**
Influent pH:	**7.0**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**17.5**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1255	**0**	**0.0**
W-1253	**0**	**0.0**
W-1307	**321,100**	**6.4**
W-1303	**45,900**	**1.1**
W-1306	**12,400**	**0.3**
W-1404	**0**	**0.0**
W-1550	**91,600**	**2.4**
W-1301	**70,100**	**1.3**
W-2006	**1,200**	**0.0**
W-2203	**51,700**	**1.0**
Total:	**594,000**	**12.5**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**594,000**

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Self-Monitoring Report (cont'd)
LLNL Portable Treatment Unit 8 (PTU8)
AREA TFD-E

Operator Signature: Scott Cowagun Jr. Date: **12-31-2008**

Self-Monitoring Report
LLNL Portable Treatment Unit 10 (PTU10)
AREA TFD-HPD

1. Reporting Period: Business Month **October** Year **2008**

2. Dates (in **bold** and underline) treated ground water was discharged

October	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

Total monthly time facility operated (hours): **0**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**
Influent pH:
Effluent pH:
Effluent Temperature (°C):

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1254	**0**	**0.0**
W-1653	**0**	**0.0**
W-1657	**0**	**0.0**
W-1551	**0**	**0.0**
W-1654	**0**	**0.0**
W-1656	**0**	**0.0**
W-1650	**0**	**0.0**
W-1652	**0**	**0.0**
W-1552	**0**	**0.0**
W-1651	**0**	**0.0**
W-1655	**0**	**0.0**
Total:	**0**	**0.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**0**

6. Comments:

This treatment facility was shut down on 10-11-07 for a bioremediation pilot test at this location. It has not been restarted due to a FY 2008 funding reduction. Facilities will be restarted in a prioritized order, pending available staff and resources.

Self-Monitoring Report (cont'd)
LLNL Portable Treatment Unit 10 (PTU10)
AREA TFD-HPD

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Scott Cavagnaro Date: **11-03-2008**

Self-Monitoring Report
LLNL Portable Treatment Unit 10 (PTU10)
AREA TFD-HPD

1. Reporting Period: Business Month **November** Year **2008**

2. Dates (in **bold** and underline) treated ground water was discharged

November **01** **02** **03** **04** **05** **06** **07** **08** **09** **10** **11** 12 13 14 15
16 **17** **18** **19** **20** **21** **22** **23** **24** **25** **26**

Total monthly time facility operated (hours): **0**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**
Influent pH:
Effluent pH:
Effluent Temperature (°C):

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1254	**0**	**0.0**
W-1653	**0**	**0.0**
W-1657	**0**	**0.0**
W-1551	**0**	**0.0**
W-1654	**0**	**0.0**
W-1656	**0**	**0.0**
W-1650	**0**	**0.0**
W-1652	**0**	**0.0**
W-1552	**0**	**0.0**
W-1651	**0**	**0.0**
W-1655	**0**	**0.0**
Total:	**0**	**0.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**0**

6. Comments:

This treatment facility was shut down on 10-11-07 for a bioremediation pilot test at this location. It has not been restarted due to a FY 2008 funding reduction. Facilities will be restarted in a prioritized order, pending available staff and resources.

Self-Monitoring Report (cont'd)
LLNL Portable Treatment Unit 10 (PTU10)
AREA TFD-HPD

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **12-01-2008**

Self-Monitoring Report
LLNL Portable Treatment Unit 10 (PTU10)
AREA TFD-HPD

1. Reporting Period: Business Month **December** Year **2008**

2. Dates (in **bold** and underline) treated ground water was discharged

November	27	28	29	30											
December	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

Total monthly time facility operated (hours): **0**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**
Influent pH:
Effluent pH:
Effluent Temperature (°C):

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1254	**0**	**0.0**
W-1653	**0**	**0.0**
W-1657	**0**	**0.0**
W-1551	**0**	**0.0**
W-1654	**0**	**0.0**
W-1656	**0**	**0.0**
W-1650	**0**	**0.0**
W-1652	**0**	**0.0**
W-1552	**0**	**0.0**
W-1651	**0**	**0.0**
W-1655	**0**	**0.0**
Total:	**0**	**0.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**0**

6. Comments:

This treatment facility was shut down on 10-11-07 for a bioremediation pilot test at this location. It has not been restarted due to a FY 2008 funding reduction. Facilities will be restarted in a prioritized order, pending available staff and

resources.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Scott Kawaguchi Date: **12-31-2008**

Self-Monitoring Report
LLNL Portable Treatment Unit 2 (PTU2)
AREA TFD-S

1. Reporting Period: Business Month **October** Year **2008**

2. Dates (in **bold** and underline) treated ground water was discharged

October	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

Total monthly time facility operated (hours): **0**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**
Influent pH:
Effluent pH:
Effluent Temperature (°C):

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1503	**0**	**0.0**
W-1510	**0**	**0.0**
W-1504	**0**	**0.0**
Total:	**0**	**0.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**0**

6. Comments:

System secured on 5/7/08 due to malfunctioning water level transducers in wells W-1503 and W-1510. PTU2 has not been repaired and restarted due to a FY 2008 funding reduction. Facilities will be restarted in a prioritized order, pending available staff and resources.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **11-06-2008**

Self-Monitoring Report
LLNL Portable Treatment Unit 2 (PTU2)
AREA TFD-S

1. Reporting Period: Business Month **November** Year **2008**

2. Dates (in **bold** and underline) treated ground water was discharged

November	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	**21**	22	23	24	25	26				

Total monthly time facility operated (hours): **1**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**11-21-2008**
Influent pH:	**7.0**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**20.6**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1503	**1,424**	**17.3**
W-1510	**247**	**3.0**
W-1504	**250**	**3.1**
Total:	**1,921**	**23.4**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**1,921**

6. Comments:

System secured on 5/7/08 due to malfunctioning water level transducers in wells W-1503 and W-1510. PTU2 has not been repaired and restarted due to a FY 2008 funding reduction. System operated on 11/21/08 to collect monthly samples and readings. Facilities will be restarted in a prioritized order, pending available staff and resources.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **12-04-2008**

Self-Monitoring Report
LLNL Portable Treatment Unit 2 (PTU2)
AREA TFD-S

1. Reporting Period: Business Month **December** Year **2008**

2. Dates (in **bold** and underline) treated ground water was discharged

November	27	28	29	30											
December	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	**22**	23	24	25	26	27	28	29	30	31

Total monthly time facility operated (hours): 1

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**12-22-2008**
Influent pH:	**7.0**
Effluent pH:	**7.0**
Effluent Temperature (°C):	**19.1**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1503	**1,720**	**17.1**
W-1510	**298**	**2.9**
W-1504	**283**	**2.9**
Total:	**2,301**	**22.9**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**2,301**

6. Comments:

System secured on 5/7/08 due to malfunctioning water level transducers in wells W-1503 and W-1510. PTU2 has not been repaired and restarted due to a FY 2008 funding reduction. System operated on 12/22/08 to collect monthly samples and readings. Facilities will be restarted in a prioritized order, pending available staff and resources.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **01-06-2009**

Self-Monitoring Report
LLNL Portable Treatment Unit 11 (PTU11)
AREA TFD-SE

1. Reporting Period: Business Month **October** Year **2008**

2. Dates (in **bold** and underline) treated ground water was discharged

October **01 02 03 04 05 06 07 08 09 10 11 12 13 14 15**
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

Total monthly time facility operated (hours): **753**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**10-15-2008**
Influent pH:	**7.5**
Effluent pH:	**8.0**
Effluent Temperature (°C):	**18.5**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-314	**0**	**0.0**
W-1403	**0**	**0.0**
W-1308	**173,343**	**3.9**
W-1904	**0**	**0.0**
W-2005	**58,452**	**1.2**
SIP-ETC-201	**0**	**0.0**
Total:	**231,795**	**5.1**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**231,795**

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Scott Gallagher Date: **10-31-2008**

Self-Monitoring Report
LLNL Portable Treatment Unit 11 (PTU11)
AREA TFD-SE

1. Reporting Period: Business Month **November** Year **2008**

2. Dates (in **bold** and underline) treated ground water was discharged

November **01 02 03 04 05 06 07 08 09 10 11 12 13 14 15**
16 17 18 19 20 21 22 23 24 25 26

Total monthly time facility operated (hours): **629**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**11-05-2008**
Influent pH:	**7.0**
Effluent pH:	**7.5**
Effluent Temperature (^{o}C):	**17.9**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-314	**0**	**0.0**
W-1403	**0**	**0.0**
W-1308	**141,383**	**3.8**
W-1904	**0**	**0.0**
W-2005	**49,854**	**1.3**
SIP-ETC-201	**0**	**0.0**
Total:	**191,237**	**5.1**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**191,237**

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **11-26-2008**

Self-Monitoring Report
LLNL Portable Treatment Unit 11 (PTU11)
AREA TFD-SE

1. Reporting Period: Business Month **December** Year **2008**

2. Dates (in **bold** and underline) treated ground water was discharged

November **27 28 29 30**
December **01 02 03 04 05 06 07 08 09 10 11 12 13 14 15**
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

Total monthly time facility operated (hours): **851**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**12-03-2008**
Influent pH:	**7.0**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**17.2**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-314	**0**	**0.0**
W-1403	**0**	**0.0**
W-1308	**186,492**	**3.7**
W-1904	**0**	**0.0**
W-2005	**68,163**	**1.2**
SIP-ETC-201	**0**	**0.0**
Total:	**254,655**	**4.9**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**254,655**

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **12-31-2008**

Self-Monitoring Report
LLNL Portable Treatment Unit 12 (PTU12)
AREA TFD-SS

1. Reporting Period: Business Month **October** Year **2008**

2. Dates (in **bold** and underline) treated ground water was discharged

October **01 02 03 04 05 06 07 08 09 10 11 12 13 14 15**
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

Total monthly time facility operated (hours): **745**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**10-07-2008**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**21**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1523	**361,911**	**8.1**
W-1603	**4**	**0.0**
W-1602	**214,556**	**4.8**
W-1601	**49,327**	**1.1**
Total:	**625,798**	**14.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**625,798**

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **11-06-2008**

Self-Monitoring Report
LLNL Portable Treatment Unit 12 (PTU12)
AREA TFD-SS

1. Reporting Period: Business Month **November** Year **2008**

2. Dates (in **bold** and underline) treated ground water was discharged

November **01 02 03 04 05 06 07 08 09 10 11 12 13 14 15**
16 17 18 19 20 21 22 23 24 25 26

Total monthly time facility operated (hours): **632**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**11-18-2008**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**21.4**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1523	**302,696**	**8.0**
W-1603	**0**	**0.0**
W-1602	**180,714**	**4.8**
W-1601	**42,127**	**1.1**
Total:	**525,537**	**13.9**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**525,537**

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **12-04-2008**

Self-Monitoring Report
LLNL Portable Treatment Unit 12 (PTU12)
AREA TFD-SS

1. Reporting Period: Business Month **December** Year **2008**

2. Dates (in **bold** and underline) treated ground water was discharged

November **27 28 29 30**
December **01 02 03 04 05 06 07 08 09 10 11 12 13 14 15**
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

Total monthly time facility operated (hours): **848**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**12-18-2008**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**19.5**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1523	**399,880**	**7.9**
W-1603	**0**	**0.0**
W-1602	**242,899**	**4.8**
W-1601	**60,405**	**1.2**
Total:	**703,184**	**13.9**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**703,184**

6. Comments:
W-1603 secure pending well pump repairs.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **01-06-2009**

Self-Monitoring Report
LLNL Portable Treatment Unit 6 (PTU6)
AREA TFD-W

1. Reporting Period: Business Month **October** Year **2008**

2. Dates (in **bold** and underline) treated ground water was discharged

October **01 02 03 04 05 06 07 08 09 10 11 12 13 14 15**
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

Total monthly time facility operated (hours): **725**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**10-08-2008**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**21.1**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1216	**202,774**	**4.7**
W-1215	**1**	**0.0**
W-1902	**705,300**	**16.6**
Total:	**908,075**	**21.3**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**908,075**

6. Comments:
W-1215 pump failed on 8-8-08, repairs pending. System secured on 10/30/08 for wildlife mitigation.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **11-06-2008**

Self-Monitoring Report
LLNL Portable Treatment Unit 6 (PTU6)
AREA TFD-W

1. Reporting Period: Business Month **November** Year **2008**

2. Dates (in **bold** and underline) treated ground water was discharged

November **01** **02** **03** **04** **05** **06** **07** **08** **09** **10** **11** **12** **13** **14** **15**
16 **17** **18** **19** **20** **21** **22** 23 **24** **25** **26**

Total monthly time facility operated (hours): **480**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**11-01-2008**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**21.7**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1216	**114,240**	**4.0**
W-1215	**1**	**0.0**
W-1902	**449,784**	**15.6**
Total:	**564,025**	**19.6**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**564,025**

6. Comments:
System secure from 10/30/08 to 11/4/08 for wildlife mitigation. System shut down from 11/22/08 to 11/24/08 due to facility power failure.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **12-04-2008**

Self-Monitoring Report
LLNL Portable Treatment Unit 6 (PTU6)
AREA TFD-W

1. Reporting Period: Business Month **December** Year **2008**

2. Dates (in **bold** and underline) treated ground water was discharged

November **27 28 29 30**
December **01 02 03 04 05 06 07 08 09 10 11 12 13 14 15**
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

Total monthly time facility operated (hours): **849**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**12-16-2008**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**19.9**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1216	**197,132**	**3.8**
W-1215	**0**	**0.0**
W-1902	**712,994**	**13.9**
Total:	**910,126**	**17.7**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**910,126**

6. Comments:
W-1215 secure pending well pump repairs.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **01-06-2009**

Self-Monitoring Report
LLNL Vapor Extraction System 11 (VES11)
AREA VTFD-ETCS

1. Reporting Period: Business Month **October** Year **2008**

2. Dates (in **bold** and underline) treatment facility operated

October	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

3. Wellfield Data:

Source	Monthly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-1904	**0**	**0.0**	**0**	**0**	**0**
W-ETC-2004B	**0**	**0.0**	**0**	**0**	**0**
W-ETC-2004A	**0**	**0.0**	**0**	**0**	**0**
W-ETC-2003	**0**	**0.0**	**0**	**0**	**0**
SIP-ETC-201	**0**	**0.0**	**0**	**0**	**0**
Total:	**0**	**0.0**			

4. Comments:

This treatment facility was shut down on 8/12/07. Due to a FY 2008 funding reduction, facilities will be restarted in a prioritized order, pending available staff and resources.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **11-06-2008**

Self-Monitoring Report
LLNL Vapor Extraction System 11 (VES11)
AREA VTFD-ETCS

1. Reporting Period: Business Month **November** Year **2008**

2. Dates (in **bold** and underline) treatment facility operated

November **01** **02** **03** **04** **05** **06** **07** **08** **09** **10** **11** 12 13 14 15
16 **17** **18** **19** **20** **21** **22** **23** **24** **25** **26**

3. Wellfield Data:

Source	Monthly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-1904	**0**	**0.0**	**0**	**0**	**0**
W-ETC-2004B	**0**	**0.0**	**0**	**0**	**0**
W-ETC-2004A	**0**	**0.0**	**0**	**0**	**0**
W-ETC-2003	**0**	**0.0**	**0**	**0**	**0**
SIP-ETC-201	**0**	**0.0**	**0**	**0**	**0**
Total:	**0**	**0.0**			

4. Comments:

This treatment facility was shut down on 8/12/07. Due to a FY 2008 funding reduction, facilities will be restarted in a prioritized order, pending available staff and resources.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **12-04-2008**

Self-Monitoring Report
LLNL Vapor Extraction System 11 (VES11)
AREA VTFD-ETCS

1. Reporting Period: Business Month **December** Year **2008**

2. Dates (in **bold** and underline) treatment facility operated

November	27	28	29	30											
December	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

3. Wellfield Data:

Source	Monthly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-1904	**0**	**0.0**	**0**	**0**	**0**
W-ETC-2004B	**0**	**0.0**	**0**	**0**	**0**
W-ETC-2004A	**0**	**0.0**	**0**	**0**	**0**
W-ETC-2003	**0**	**0.0**	**0**	**0**	**0**
SIP-ETC-201	**0**	**0.0**	**0**	**0**	**0**
Total:	**0**	**0.0**			

4. Comments:

This treatment facility was shut down on 8/12/07. Due to a FY 2008 funding reduction, facilities will be restarted in a prioritized order, pending available staff and resources.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **01-06-2009**

Self-Monitoring Report
LLNL Vapor Extraction System 07 (VES07)
AREA VTFD-HPD

1. Reporting Period: Business Month **October** Year **2008**

2. Dates (in **bold** and underline) treatment facility operated

October	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

3. Wellfield Data:

Source	Monthly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-1651	**0**	**0.0**	**0**	**0**	**0**
W-1653	**0**	**0.0**	**0**	**0**	**0**
W-1657	**0**	**0.0**	**0**	**0**	**0**
W-1654	**0**	**0.0**	**0**	**0**	**0**
W-1652	**0**	**0.0**	**0**	**0**	**0**
W-1552	**0**	**0.0**	**0**	**0**	**0**
W-1655	**0**	**0.0**	**0**	**0**	**0**
W-1656	**0**	**0.0**	**0**	**0**	**0**
W-1650	**0**	**0.0**	**0**	**0**	**0**
W-HPA-002A	**0**	**0.0**	**0**	**0**	**0**
W-HPA-002B	**0**	**0.0**	**0**	**0**	**0**
Total:	**0**	**0.0**			

4. Comments:

This treatment facility was shut down on 10-11-07 for a bioremediation test at this location. It has not been restarted due to a FY 2008 funding reduction. Facilities will be restarted in a prioritized order, pending available staff and resources.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **11-03-2008**

Self-Monitoring Report
LLNL Vapor Extraction System 07 (VES07)
AREA VTFD-HPD

1. Reporting Period: Business Month **November** Year **2008**

2. Dates (in **bold** and underline) treatment facility operated

November **01** **02** **03** **04** **05** **06** **07** **08** **09** **10** **11** 12 13 14 15
16 **17** **18** **19** **20** **21** **22** **23** **24** **25** **26**

3. Wellfield Data:

Source	Monthly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-1651	**0**	**0.0**	**0**	**0**	**0**
W-1653	**0**	**0.0**	**0**	**0**	**0**
W-1657	**0**	**0.0**	**0**	**0**	**0**
W-1654	**0**	**0.0**	**0**	**0**	**0**
W-1652	**0**	**0.0**	**0**	**0**	**0**
W-1552	**0**	**0.0**	**0**	**0**	**0**
W-1655	**0**	**0.0**	**0**	**0**	**0**
W-1656	**0**	**0.0**	**0**	**0**	**0**
W-1650	**0**	**0.0**	**0**	**0**	**0**
W-HPA-002A	**0**	**0.0**	**0**	**0**	**0**
W-HPA-002B	**0**	**0.0**	**0**	**0**	**0**
Total:	**0**	**0.0**			

4. Comments:

This treatment facility was shut down on 10-11-07 for a bioremediation test at this location. It has not been restarted due to a FY 2008 funding reduction. Facilities will be restarted in a prioritized order, pending available staff and resources.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **12-01-2008**

Self-Monitoring Report
LLNL Vapor Extraction System 07 (VES07)
AREA VTFD-HPD

1. Reporting Period: Business Month **December** Year **2008**

2. Dates (in **bold** and underline) treatment facility operated

November	27	28	29	30											
December	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

3. Wellfield Data:

Source	Monthly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-1651	**0**	**0.0**	**0**	**0**	**0**
W-1653	**0**	**0.0**	**0**	**0**	**0**
W-1657	**0**	**0.0**	**0**	**0**	**0**
W-1654	**0**	**0.0**	**0**	**0**	**0**
W-1652	**0**	**0.0**	**0**	**0**	**0**
W-1552	**0**	**0.0**	**0**	**0**	**0**
W-1655	**0**	**0.0**	**0**	**0**	**0**
W-1656	**0**	**0.0**	**0**	**0**	**0**
W-1650	**0**	**0.0**	**0**	**0**	**0**
W-HPA-002A	**0**	**0.0**	**0**	**0**	**0**
W-HPA-002B	**0**	**0.0**	**0**	**0**	**0**
Total:	**0**	**0.0**			

4. Comments:

This treatment facility was shut down on 10-11-07 for a bioremediation test at this location. It has not been restarted due to a FY 2008 funding reduction. Facilities will be restarted in a prioritized order, pending available staff and resources.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Scott Kawaguchi Date: **12-31-2008**

Self-Monitoring Report
LLNL Vapor Extraction System 13 (VES13)
AREA VTFD-HS

1. Reporting Period: Business Month **October** Year **2008**

2. Dates (in **bold** and underline) treatment facility operated

October	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

3. Wellfield Data:

Source	Monthly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-653	**0**	**0.0**	**0**	**0**	**0**
W-2102	**0**	**0.0**	**0**	**0**	**0**
W-2011	**0**	**0.0**	**0**	**0**	**0**
W-2101	**0**	**0.0**	**0**	**0**	**0**
Total:	**0**	**0.0**			

4. Comments:

This treatment facility was shut down on 6-7-07 due to a failed blower motor. It has not been restarted due to a FY 2008 funding reduction. Facilities will be restarted in a prioritized order, pending available staff and resources.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Scott Carrazco Date: **11-03-2008**

Self-Monitoring Report
LLNL Vapor Extraction System 13 (VES13)
AREA VTFD-HS

1. Reporting Period: Business Month **November** Year **2008**

2. Dates (in **bold** and underline) treatment facility operated

November **01** **02** **03** **04** **05** **06** **07** **08** **09** **10** **11** 12 13 14 15
16 **17** **18** **19** **20** **21** **22** **23** **24** **25** **26**

3. Wellfield Data:

Source	Monthly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-653	**0**	**0.0**	**0**	**0**	**0**
W-2102	**0**	**0.0**	**0**	**0**	**0**
W-2011	**0**	**0.0**	**0**	**0**	**0**
W-2101	**0**	**0.0**	**0**	**0**	**0**
Total:	**0**	**0.0**			

4. Comments:

This treatment facility was shut down on 6-7-07 due to a failed blower motor. It has not been restarted due to a FY 2008 funding reduction. Facilities will be restarted in a prioritized order, pending available staff and resources.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **12-01-2008**

Self-Monitoring Report
LLNL Vapor Extraction System 13 (VES13)
AREA VTFD-HS

1. Reporting Period: Business Month **December** Year **2008**

2. Dates (in **bold** and underline) treatment facility operated

November	27	28	29	30											
December	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

3. Wellfield Data:

Source	Monthly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-653	**0**	**0.0**	**0**	**0**	**0**
W-2102	**0**	**0.0**	**0**	**0**	**0**
W-2011	**0**	**0.0**	**0**	**0**	**0**
W-2101	**0**	**0.0**	**0**	**0**	**0**
Total:	**0**	**0.0**			

4. Comments:

This treatment facility was shut down on 6-7-07 due to a failed blower motor. It has not been restarted due to a FY 2008 funding reduction. Facilities will be restarted in a prioritized order, pending available staff and resources.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **12-31-2008**

Self-Monitoring Report
LLNL Portable Treatment Unit 3 (PTU3)
AREA TFE-E

1. Reporting Period: Business Month **October** Year **2008**

2. Dates (in **bold** and underline) treated ground water was discharged

October	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

Total monthly time facility operated (hours): **0**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**
Influent pH:
Effluent pH:
Effluent Temperature (°C):

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-566	**0**	**0.0**
W-1109	**0**	**0.0**
W-1903	**0**	**0.0**
W-1909	**0**	**0.0**
W-2305	**0**	**0.0**
Total:	**0**	**0.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**0**

6. Comments:
System shut down and was secured on 6/2/08 due to electronic (PLC) failure. Due to a FY 2008 funding reduction, facilities will be restarted in a prioritized order, pending available staff and resources.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **11-06-2008**

Self-Monitoring Report
LLNL Portable Treatment Unit 3 (PTU3)
AREA TFE-E

1. Reporting Period: Business Month **November** Year **2008**

2. Dates (in **bold** and underline) treated ground water was discharged

November 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
16 17 18 19 20 21 22 23 24 25 26

Total monthly time facility operated (hours): **0**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**
Influent pH:
Effluent pH:
Effluent Temperature (°C):

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-566	**0**	**0.0**
W-1109	**0**	**0.0**
W-1903	**0**	**0.0**
W-1909	**0**	**0.0**
W-2305	**0**	**0.0**
Total:	**0**	**0.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**0**

6. Comments:
System shut down and was secured on 6/2/08 due to electronic (PLC) failure. Due to a FY 2008 funding reduction, facilities will be restarted in a prioritized order, pending available staff and resources.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **12-04-2008**

Self-Monitoring Report
LLNL Portable Treatment Unit 3 (PTU3)
AREA TFE-E

1. Reporting Period: Business Month **December** Year **2008**

2. Dates (in **bold** and underline) treated ground water was discharged

November	27	28	29	30											
December	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

Total monthly time facility operated (hours): **0**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**
Influent pH:
Effluent pH:
Effluent Temperature (°C):

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-566	**0**	**0.0**
W-1109	**0**	**0.0**
W-1903	**0**	**0.0**
W-1909	**0**	**0.0**
W-2305	**0**	**0.0**
Total:	**0**	**0.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**0**

6. Comments:
System shut down and was secured on 6/2/08 due to electronic (PLC) failure. Due to a FY 2008 funding reduction, facilities will be restarted in a prioritized order, pending available staff and resources.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **01-06-2009**

Self-Monitoring Report
LLNL GAC Treatment Unit 07 (GTU07)
AREA TFE-HS

1. Reporting Period: Business Month **October** Year **2008**

2. Dates (in **bold** and underline) treated ground water was discharged

October	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

Total monthly time facility operated (hours): **0**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**
Influent pH:
Effluent pH:
Effluent Temperature (°C):

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-2105	**0**	**0.0**
W-2012	**0**	**0.0**
Total:	**0**	**0.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**0**

6. Comments:

System secured 6/10/08 due to concerns regarding W-2012 pump cycling on and off. It has not been restarted due to a FY 2008 funding reduction. Facilities will be restarted in a prioritized order, pending available staff and resources.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **11-06-2008**

Self-Monitoring Report
LLNL GAC Treatment Unit 07 (GTU07)
AREA TFE-HS

1. Reporting Period: Business Month **November** Year **2008**

2. Dates (in **bold** and underline) treated ground water was discharged

November 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
16 17 18 19 20 21 22 23 24 25 26

Total monthly time facility operated (hours): **0**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**
Influent pH:
Effluent pH:
Effluent Temperature (°C):

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-2105	**0**	**0.0**
W-2012	**0**	**0.0**
Total:	**0**	**0.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**0**

6. Comments:

System secured 6/10/08 due to concerns regarding W-2012 pump cycling on and off. It has not been restarted due to a FY 2008 funding reduction. Facilities will be restarted in a prioritized order, pending available staff and resources.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **12-04-2008**

Self-Monitoring Report
LLNL GAC Treatment Unit 07 (GTU07)
AREA TFE-HS

1. Reporting Period: Business Month **December** Year **2008**

2. Dates (in **bold** and underline) treated ground water was discharged

November	27	28	29	30											
December	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

Total monthly time facility operated (hours): **0**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**
Influent pH:
Effluent pH:
Effluent Temperature (°C):

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-2105	**0**	**0.0**
W-2012	**0**	**0.0**
Total:	**0**	**0.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**0**

6. Comments:

System secured 6/10/08 due to concerns regarding W-2012 pump cycling on and off. It has not been restarted due to a FY 2008 funding reduction. Facilities will be restarted in a prioritized order, pending available staff and resources.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **01-06-2009**

Self-Monitoring Report
LLNL Portable Treatment Unit 9 (PTU9)
AREA TFE-NW

1. Reporting Period: Business Month **October** Year **2008**

2. Dates (in **bold** and underline) treated ground water was discharged

October **01 02 03 04 05 06 07 08 09 10 11 12 13 14 15**
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

Total monthly time facility operated (hours): **728**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**10-07-2008**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**21.1**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1211	**834,918**	**19.3**
W-1409	**4**	**0.0**
Total:	**834,922**	**19.3**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**834,922**

6. Comments:
W-1409 well pump failed on 5/6/08, repairs pending. System secured on 10/30/08 for wildlife mitigation.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **11-06-2008**

Self-Monitoring Report
LLNL Portable Treatment Unit 9 (PTU9)
AREA TFE-NW

1. Reporting Period: Business Month **November** Year **2008**

2. Dates (in **bold** and underline) treated ground water was discharged

November **01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26**

Total monthly time facility operated (hours): **530**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**11-17-2008**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**21.9**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1211	**608,518**	**18.6**
W-1409	**0**	**0.0**
Total:	**608,518**	**18.6**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**608,518**

6. Comments:

W-1409 well pump failed on 5/6/08, repairs pending. System secured from 10/30/08 to 11/4/08 for wildlife mitigation.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **12-04-2008**

Self-Monitoring Report
LLNL Portable Treatment Unit 9 (PTU9)
AREA TFE-NW

1. Reporting Period: Business Month **December** Year **2008**

2. Dates (in **bold** and underline) treated ground water was discharged

November **27 28 29 30**
December **01 02 03 04 05 06 07 08 09 10 11 12 13 14 15**
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

Total monthly time facility operated (hours): **852**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**12-08-2008**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**21.4**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1211	**935,146**	**18.5**
W-1409	**0**	**0.0**
Total:	**935,146**	**18.5**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**935,146**

6. Comments:
W-1409 well pump failed on 5/6/08, repairs pending.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **01-06-2009**

Self-Monitoring Report
LLNL Mini Treatment Unit 04 (MTU04)
AREA TFE-SE

1. Reporting Period: Business Month **October** Year **2008**

2. Dates (in **bold** and underline) treated ground water was discharged

October	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

Total monthly time facility operated (hours): **0**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**
Influent pH:
Effluent pH:
Effluent Temperature (°C):

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-359	**0**	**0.0**
Total:	**0**	**0.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**0**

6. Comments:

Facility failed on 4/2/08 due to a failure of the down hole pump in W-359. The pump has not been replaced and the facility has not operated since 4/2/08. The facility will be restarted once the pump is replaced and the facility is ready for a restart. Facility did not operate in the month of October.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **11-04-2008**

Self-Monitoring Report
LLNL Mini Treatment Unit 04 (MTU04)
AREA TFE-SE

1. Reporting Period: Business Month **November** Year **2008**

2. Dates (in **bold** and underline) treated ground water was discharged

November **01** **02** **03** **04** **05** **06** **07** **08** **09** **10** **11** 12 13 14 15
16 **17** **18** **19** **20** **21** **22** **23** **24** **25** **26**

Total monthly time facility operated (hours): **0**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**
Influent pH:
Effluent pH:
Effluent Temperature (°C):

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-359	**0**	**0.0**
Total:	**0**	**0.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**0**

6. Comments:

Facility shut down on 4/2/08 due to pump failure in W-359, repairs pending. Due to a FY 2008 funding reduction, facilities will be restarted in a prioritized order, pending available staff and resources.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **12-04-2008**

Self-Monitoring Report
LLNL Mini Treatment Unit 04 (MTU04)
AREA TFE-SE

1. Reporting Period: Business Month **December** Year **2008**

2. Dates (in **bold** and underline) treated ground water was discharged

November	27	28	29	30											
December	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

Total monthly time facility operated (hours): **0**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**
Influent pH:
Effluent pH:
Effluent Temperature (°C):

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-359	**0**	**0.0**
Total:	**0**	**0.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**0**

6. Comments:
Facility shut down on 4/2/08 due to pump failure in W-359, repairs pending. Due to a FY 2008 funding reduction, facilities will be restarted in a prioritized order, pending available staff and resources.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **01-06-2009**

Self-Monitoring Report
LLNL Mini Treatment Unit 03 (MTU03)
AREA TFE-SW

1. Reporting Period: Business Month **October** Year **2008**

2. Dates (in **bold** and underline) treated ground water was discharged

October **01 02 03 04 05 06 07 08 09 10 11 12 13 14 15**
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

Total monthly time facility operated (hours): **738**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**10-01-2008**
Influent pH:	**7.0**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**24.4**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1520	**34**	**2.1**
W-1518	**0**	**0.0**
W-1522	**56,616**	**1.3**
Total:	**56,650**	**3.4**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**56,650**

6. Comments:

W-1520 operated only to collect samples on 10/16/08. Samples collected were E601 and E906. W-1518 was discovered non operational on 9/8/08. Unable to restart pump.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **11-05-2008**

Self-Monitoring Report
LLNL Mini Treatment Unit 03 (MTU03)
AREA TFE-SW

1. Reporting Period: Business Month **November** Year **2008**

2. Dates (in **bold** and underline) treated ground water was discharged

November **01 02 03 04 05 06 07 08 09 10 11** 12 13 14 15
16 17 18 19 20 21 22 23 24 25 26

Total monthly time facility operated (hours): **619**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**11-06-2008**
Influent pH:	**7.0**
Effluent pH:	**7.5**
Effluent Temperature (^{o}C):	**18.8**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1520	**0**	**0.0**
W-1518	**0**	**0.0**
W-1522	**48,084**	**1.3**
Total:	**48,084**	**1.3**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**48,084**

6. Comments:

Facility continues to operate with one well-W-1522. W-1520 was secured due high Tritium concentrations. W-1518 is down due to a failed extraction well pump.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **12-02-2008**

Self-Monitoring Report
LLNL Mini Treatment Unit 03 (MTU03)
AREA TFE-SW

1. Reporting Period: Business Month **December** Year **2008**

2. Dates (in **bold** and underline) treated ground water was discharged

November **27 28 29 30**
December **01 02 03 04 05 06 07 08 09 10 11 12 13 14 15**
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

Total monthly time facility operated (hours): **835**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**12-04-2008**
Influent pH:	**7.0**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**16**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1520	**0**	**0.0**
W-1518	**0**	**0.0**
W-1522	**61,655**	**1.3**
Total:	**61,655**	**1.3**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**61,655**

6. Comments:
W1520 down due to elevated tritium levels. W-1518 down due to a non-operational pump.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Benjamin J. Johnson Date: **01-06-2009**

Self-Monitoring Report
LLNL Mini Treatment Unit 05 (MTU05)
AREA TFE-W

1. Reporting Period: Business Month **October** Year **2008**

2. Dates (in **bold** and underline) treated ground water was discharged

October **01 02 03 04 05 06 07 08 09 10 11 12 13 14 15**
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

Total monthly time facility operated (hours): **717**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**10-15-2008**
Influent pH:	**7.0**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**20.5**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-305	**381,518**	**8.8**
W-292	**260,190**	**6.0**
Total:	**641,708**	**14.8**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**641,708**

6. Comments:
Did not operate on 10/31/2008 to support wildlife biologist activities.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **11-05-2008**

Self-Monitoring Report
LLNL Mini Treatment Unit 05 (MTU05)
AREA TFE-W

1. Reporting Period: Business Month **November** Year **2008**

2. Dates (in **bold** and underline) treated ground water was discharged

November 01 02 03 **04** **05** **06** **07** **08** **09** **10** **11** 12 13 14 15
16 **17** **18** **19** **20** **21** **22** **23** **24** **25** **26**

Total monthly time facility operated (hours): **518**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**11-06-2008**
Influent pH:	**7.0**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**19.7**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-305	**274,482**	**8.8**
W-292	**184,871**	**5.9**
Total:	**459,353**	**14.7**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**459,353**

6. Comments:
Facility was down from 10/31 through 11/3 for North Ditch Work (Wildlife work).

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Benjamin [illegible] Date: **12-03-2008**

Self-Monitoring Report
LLNL Mini Treatment Unit 05 (MTU05)
AREA TFE-W

1. Reporting Period: Business Month **December** Year **2008**

2. Dates (in **bold** and underline) treated ground water was discharged

November **27** **28** **29** **30**
December **01** **02** **03** **04** **05** **06** **07** **08** **09** **10** **11** **12** **13** **14** **15**
16 **17** **18** **19** 20 21 **22** **23** **24** **25** **26** **27** **28** **29** **30** **31**

Total monthly time facility operated (hours): **785**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**11-27-2008**
Influent pH:	**7.0**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**19.3**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-305	**419,362**	**8.8**
W-292	**281,995**	**6.0**
Total:	**701,357**	**14.8**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**701,357**

6. Comments:
Facility failed late Friday 12/19/08 due to a high sump level in the air stripper.
Facility was restarted on 12/22/08.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **01-06-2009**

Self-Monitoring Report
LLNL Vapor Extraction System 16 (VES16)
AREA VTFE-ELM

1. Reporting Period: Business Month **October** Year **2008**

2. Dates (in **bold** and underline) treatment facility operated

October **01** **02** **03** **04** **05** **06** **07** **08** **09** **10** **11** **12** **13** **14** **15**
16 **17** **18** **19** **20** **21** **22** **23** **24** **25** **26** **27** **28** **29** **30** **31**

3. Wellfield Data:

Source	Monthly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-1909	**0**	**0.0**	**0**	**0**	**0**
W-1903	**0**	**0.0**	**0**	**0**	**0**
W-2305	**0**	**0.0**	**0**	**0**	**0**
W-543-003	**0**	**0.0**	**0**	**0**	**0**
W-543-001	**0**	**0.0**	**0**	**0**	**0**
W-543-1908	**0**	**0.0**	**0**	**0**	**0**
Total:	**0**	**0.0**			

4. Comments:

This treatment facility was shut down on 2/06/08. Due to a FY 2008 funding reduction, facilities will be restarted in a prioritized order, pending available staff and resources.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **11-06-2008**

Self-Monitoring Report
LLNL Vapor Extraction System 16 (VES16)
AREA VTFE-ELM

1. Reporting Period: Business Month **November** Year **2008**

2. Dates (in **bold** and underline) treatment facility operated

November **01** **02** **03** **04** **05** **06** **07** **08** **09** **10** **11** 12 13 14 15
16 **17** **18** **19** **20** **21** **22** **23** **24** **25** **26**

3. Wellfield Data:

Source	Monthly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-1909	**0**	**0.0**	**0**	**0**	**0**
W-1903	**0**	**0.0**	**0**	**0**	**0**
W-2305	**0**	**0.0**	**0**	**0**	**0**
W-543-003	**0**	**0.0**	**0**	**0**	**0**
W-543-001	**0**	**0.0**	**0**	**0**	**0**
W-543-1908	**0**	**0.0**	**0**	**0**	**0**
Total:	**0**	**0.0**			

4. Comments:

This treatment facility was shut down on 2/06/08. Due to a FY 2008 funding reduction, facilities will be restarted in a prioritized order, pending available staff and resources.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **12-04-2008**

Self-Monitoring Report
LLNL Vapor Extraction System 16 (VES16)
AREA VTFE-ELM

1. Reporting Period: Business Month **December** Year **2008**

2. Dates (in **bold** and underline) treatment facility operated

November	27	28	29	30											
December	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

3. Wellfield Data:

Source	Monthly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-1909	**0**	**0.0**	**0**	**0**	**0**
W-1903	**0**	**0.0**	**0**	**0**	**0**
W-2305	**0**	**0.0**	**0**	**0**	**0**
W-543-003	**0**	**0.0**	**0**	**0**	**0**
W-543-001	**0**	**0.0**	**0**	**0**	**0**
W-543-1908	**0**	**0.0**	**0**	**0**	**0**
Total:	**0**	**0.0**			

4. Comments:

This treatment facility was shut down on 2/06/08. Due to a FY 2008 funding reduction, facilities will be restarted in a prioritized order, pending available staff and resources.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **01-06-2009**

Self-Monitoring Report
LLNL Vapor Extraction System 12 (VES12)
AREA VTFE-HS

1. Reporting Period: Business Month **October** Year **2008**

2. Dates (in **bold** and underline) treatment facility operated

October	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

3. Wellfield Data:

Source	Monthly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-ETS-2010B	**0**	**0.0**	**0**	**0**	**0**
W-ETS-2010A	**0**	**0.0**	**0**	**0**	**0**
W-ETS-2009	**0**	**0.0**	**0**	**0**	**0**
W-ETS-2008A	**0**	**0.0**	**0**	**0**	**0**
W-ETS-2008B	**0**	**0.0**	**0**	**0**	**0**
W-2105	**0**	**0.0**	**0**	**0**	**0**
Total:	**0**	**0.0**			

4. Comments:

Facility did not operate in the month of Oct. 2008. Facility failed on 3/10/08 due to a catastrophic motor failure in the liquid ring vacuum pump. DOE and the regulatory agencies were notified of this action. Due to a FY 2008 funding reduction, facilities will be restarted in a prioritized order, pending available staff and resources.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Benjamin L Johnson Date: **11-11-2008**

Self-Monitoring Report
LLNL Vapor Extraction System 12 (VES12)
AREA VTFE-HS

1. Reporting Period: Business Month **November** Year **2008**

2. Dates (in **bold** and underline) treatment facility operated

November **01** **02** **03** **04** **05** **06** **07** **08** **09** **10** **11** 12 13 14 15
16 **17** **18** **19** **20** **21** **22** **23** **24** **25** **26**

3. Wellfield Data:

Source	Monthly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-ETS-2010B	**0**	**0.0**	**0**	**0**	**0**
W-ETS-2010A	**0**	**0.0**	**0**	**0**	**0**
W-ETS-2009	**0**	**0.0**	**0**	**0**	**0**
W-ETS-2008A	**0**	**0.0**	**0**	**0**	**0**
W-ETS-2008B	**0**	**0.0**	**0**	**0**	**0**
W-2105	**0**	**0.0**	**0**	**0**	**0**
Total:	**0**	**0.0**			

4. Comments:

Facility did not operate in the month of Nov. 2008. Facility failed on 3/10/08 due to a catastrophic motor failure in the liquid ring vacuum pump. DOE and the regulatory agencies were notified of this action. Due to a FY 2008 funding reduction, facilities will be restarted in a prioritized order, pending available staff and resources.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **12-02-2008**

Self-Monitoring Report
LLNL Vapor Extraction System 12 (VES12)
AREA VTFE-HS

1. Reporting Period: Business Month **December** Year **2008**

2. Dates (in **bold** and underline) treatment facility operated

November	27	28	29	30											
December	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

3. Wellfield Data:

Source	Monthly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-ETS-2010B	**0**	**0.0**	**0**	**0**	**0**
W-ETS-2010A	**0**	**0.0**	**0**	**0**	**0**
W-ETS-2009	**0**	**0.0**	**0**	**0**	**0**
W-ETS-2008A	**0**	**0.0**	**0**	**0**	**0**
W-ETS-2008B	**0**	**0.0**	**0**	**0**	**0**
W-2105	**0**	**0.0**	**0**	**0**	**0**
Total:	**0**	**0.0**			

4. Comments:

Facility did not operate in the month of Dec. 2008. Facility failed on 3/10/08 due to a catastrophic motor failure in the liquid ring vacuum pump. DOE and the regulatory agencies were notified of this action. Due to a FY 2008 funding reduction, facilities will be restarted in a prioritized order, pending available staff and resources.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **01-06-2009**

Self-Monitoring Report
LLNL GAC Treatment Unit 01 (GTU01)
AREA TFG-1

1. Reporting Period: Business Month **October** Year **2008**

2. Dates (in **bold** and underline) treated ground water was discharged

October **01 02 03 04 05 06 07 08 09 10 11 12 13 14 15**
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

Total monthly time facility operated (hours): **736**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**10-07-2008**
Influent pH:	**7.0**
Effluent pH:	**7.0**
Effluent Temperature (°C):	**18.8**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1111	**393,248**	**8.8**
Total:	**393,248**	**8.8**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Seco	**TFG-ASW**	**393,248**

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **11-06-2008**

Land Observation Report date:
TFG-ASW - Arroyo Seco

1. Reporting Period: Business Month **October** Year **2008**

2. Date compliance sampling performed **10-07-2008**

3. Weather Conditions:

Average air tempertaure (°C):	**17.5**
6-day total precipitation (in):	**.25**
Average wind speed/direction (mph):	**5/ SSW**

4. Receiving Data:

Sample Location	pH	Temperature (C)
Receiving Water	**N/M**	**N/M**

5. Land Observations, as "Yes" or "No", for reporting month:

Visual Observations	Effluent	Receiving Water
Floating and Suspended Materials of Waste Origin	**No**	**No**
Odor	**No**	**No**
Discoloration and Turbidity	Not Required	**No**
Evidence of Beneficial Water Use	Not Required	**N/A**

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **11-06-2008**

Self-Monitoring Report
LLNL GAC Treatment Unit 01 (GTU01)
AREA TFG-1

1. Reporting Period: Business Month **November** Year **2008**

2. Dates (in **bold** and underline) treated ground water was discharged

November **01 02 03 04 05 06 07 08 09 10 11 12 13 14 15**
16 17 18 19 20 21 22 23 24 25 26

Total monthly time facility operated (hours): **622**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**11-20-2008**
Influent pH:	**7.0**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**20**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1111	**332,242**	**8.9**
Total:	**332,242**	**8.9**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Seco	**TFG-ASW**	**332,242**

6. Comments:
Carbon change scheduled for 12/9/08.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **12-04-2008**

Land Observation Report date:
TFG-ASW - Arroyo Seco

1. Reporting Period: Business Month **November** Year **2008**

2. Date compliance sampling performed **11-20-2008**

3. Weather Conditions:

Average air tempertaure (°C):	**14.7**
6-day total precipitation (in):	**0**
Average wind speed/direction (mph):	**3/ SE**

4. Receiving Data:

Sample Location	pH	Temperature (C)
Receiving Water	**N/M**	**N/M**

5. Land Observations, as "Yes" or "No", for reporting month:

Visual Observations	Effluent	Receiving Water
Floating and Suspended Materials of Waste Origin	**No**	**No**
Odor	**No**	**No**
Discoloration and Turbidity	Not Required	**No**
Evidence of Beneficial Water Use	Not Required	**N/A**

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **12-04-2008**

Self-Monitoring Report
LLNL GAC Treatment Unit 01 (GTU01)
AREA TFG-1

1. Reporting Period: Business Month **December** Year **2008**

2. Dates (in **bold** and underline) treated ground water was discharged

November **27 28 29 30**
December **01 02 03 04 05 06 07 08 09 10 11 12 13 14 15**
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

Total monthly time facility operated (hours): **787**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**12-18-2008**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**19.2**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1111	**421,484**	**8.9**
Total:	**421,484**	**8.9**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Seco	**TFG-ASW**	**421,484**

6. Comments:
Carbon changed on 12/9/08.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **01-06-2009**

Land Observation Report date:
TFG-ASW - Arroyo Seco

1. Reporting Period: Business Month **December** Year **2008**

2. Date compliance sampling performed **12-18-2008**

3. Weather Conditions:

Average air tempertaure (°C):	**5.4**
6-day total precipitation (in):	**.54**
Average wind speed/direction (mph):	**5/ SSE**

4. Receiving Data:

Sample Location	pH	Temperature (C)
Receiving Water	**N/M**	**N/M**

5. Land Observations, as "Yes" or "No", for reporting month:

Visual Observations	Effluent	Receiving Water
Floating and Suspended Materials of Waste Origin	**No**	**No**
Odor	**No**	**No**
Discoloration and Turbidity	Not Required	**No**
Evidence of Beneficial Water Use	Not Required	**N/A**

6. Comments:
No water at sampling location.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **01-06-2009**

Self-Monitoring Report
LLNL Mini Treatment Unit 02 (MTU02)
AREA TFG-N

1. Reporting Period: Business Month **October** Year **2008**

2. Dates (in **bold** and underline) treated ground water was discharged

October	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

Total monthly time facility operated (hours): **0**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**
Influent pH:
Effluent pH:
Effluent Temperature (°C):

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1807	**0**	**0.0**
W-1806	**0**	**0.0**
Total:	**0**	**0.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**0**

6. Comments:

System shut down on 6/20/08 due to high sump alarm. System secured until repairs can be made. It has not been restarted due to a FY 2008 funding reduction. Facilities will be restarted in a prioritized order, pending available staff and resources.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **11-06-2008**

Self-Monitoring Report
LLNL Mini Treatment Unit 02 (MTU02)
AREA TFG-N

1. Reporting Period: Business Month **November** Year **2008**

2. Dates (in **bold** and underline) treated ground water was discharged

November **01** **02** **03** **04** **05** **06** **07** **08** **09** **10** **11** 12 13 14 15
16 **17** **18** **19** **20** **21** **22** **23** **24** **25** **26**

Total monthly time facility operated (hours): **0**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**
Influent pH:
Effluent pH:
Effluent Temperature (°C):

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1807	**0**	**0.0**
W-1806	**0**	**0.0**
Total:	**0**	**0.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**0**

6. Comments:
System shut down on 6/20/08 due to high sump alarm. System secured until repairs can be made. It has not been restarted due to a FY 2008 funding reduction. Facilities will be restarted in a prioritized order, pending available staff and resources.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **12-04-2008**

Self-Monitoring Report
LLNL Mini Treatment Unit 02 (MTU02)
AREA TFG-N

1. Reporting Period: Business Month **December** Year **2008**

2. Dates (in **bold** and underline) treated ground water was discharged

November	27	28	29	30											
December	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

Total monthly time facility operated (hours): **0**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**
Influent pH:
Effluent pH:
Effluent Temperature (°C):

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1807	**0**	**0.0**
W-1806	**0**	**0.0**
Total:	**0**	**0.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**0**

6. Comments:

System shut down on 6/20/08 due to high sump alarm. System secured until repairs can be made. It has not been restarted due to a FY 2008 funding reduction. Facilities will be restarted in a prioritized order, pending available staff and resources.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **01-06-2009**

Self-Monitoring Report
LLNL Portable Treatment Unit 5 (PTU5)
AREA TF406

1. Reporting Period: Business Month **October** Year **2008**

2. Dates (in **bold** and underline) treated ground water was discharged

October	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	**22**	**23**	24	25	26	**27**	**28**	**29**	**30**	31

Total monthly time facility operated (hours): **29**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**10-16-2008**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**22.9**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1309	**821**	**0.0**
W-1310	**23,677**	**0.0**
GSW-445	**904**	**4.5**
Total:	**25,402**	**4.5**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**25,402**

6. Comments:

System operations limited to manned/day time operations only due to system evaluation and assessment of operating parameters as well as the collection of BAAQMD samples and readings.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **12-08-2008**

Self-Monitoring Report
LLNL Portable Treatment Unit 5 (PTU5)
AREA TF406

1. Reporting Period: Business Month **November** Year **2008**

2. Dates (in **bold** and underline) treated ground water was discharged

November 01 02 **03** **04** **05** **06** **07** 08 09 10 11 12 13 14 15
16 **17** **18** **19** **20** **21** **22** **23** **24** **25** **26**

Total monthly time facility operated (hours): **271**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**11-01-2008**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (^{o}C):	**23**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1309	**0**	**0.0**
W-1310	**174,108**	**5.2**
GSW-445	**0**	**0.0**
Total:	**174,108**	**5.2**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**174,108**

6. Comments:

System operations limited to manned/day time operations only on 11/3/08 and 11/4/08 due to system evaluation and assessment of operating parameters as well as the collection of BAAQMD samples and readings. Normal system operations 11/5/08 to 11/7/08 then secured to prepare for step test of W-1310. 11/17/08 W-1310 step test started.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **12-08-2008**

Self-Monitoring Report
LLNL Portable Treatment Unit 5 (PTU5)
AREA TF406

1. Reporting Period: Business Month **December** Year **2008**

2. Dates (in **bold** and underline) treated ground water was discharged

November	**27**	**28**	**29**	**30**											
December	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14**	**15**
	16	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**

Total monthly time facility operated (hours): **848**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**12-16-2008**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**22.1**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1309	**0**	**0.0**
W-1310	**793,857**	**16.0**
GSW-445	**0**	**0.0**
Total:	**793,857**	**16.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**793,857**

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **01-06-2009**

Self-Monitoring Report
LLNL GAC Treatment Unit 03 (GTU03)
AREA TF406-NW

1. Reporting Period: Business Month **October** Year **2008**

2. Dates (in **bold** and underline) treated ground water was discharged

October	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

Total monthly time facility operated (hours): **0**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**
Influent pH:
Effluent pH:
Effluent Temperature (°C):

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1801	**0**	**0.0**
Total:	**0**	**0.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**0**

6. Comments:

System secure until well W-1801 pump repairs can be completed. Due to a FY 2008 funding reduction, facilities will be restarted in a prioritized order, pending available staff and resources.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **11-06-2008**

Self-Monitoring Report
LLNL GAC Treatment Unit 03 (GTU03)
AREA TF406-NW

1. Reporting Period: Business Month **November** Year **2008**

2. Dates (in **bold** and underline) treated ground water was discharged

November 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
16 17 18 19 20 21 22 23 24 25 26

Total monthly time facility operated (hours): **0**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**
Influent pH:
Effluent pH:
Effluent Temperature (°C):

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1801	**0**	**0.0**
Total:	**0**	**0.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**0**

6. Comments:
System secure until well W-1801 pump repairs can be completed. Due to a FY 2008 funding reduction, facilities will be restarted in a prioritized order, pending available staff and resources.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **12-04-2008**

Self-Monitoring Report
LLNL GAC Treatment Unit 03 (GTU03)
AREA TF406-NW

1. Reporting Period: Business Month **December** Year **2008**

2. Dates (in **bold** and underline) treated ground water was discharged

November	27	28	29	30											
December	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

Total monthly time facility operated (hours): **0**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**
Influent pH:
Effluent pH:
Effluent Temperature (°C):

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1801	**0**	**0.0**
Total:	**0**	**0.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**0**

6. Comments:

System secure until well W-1801 pump repairs can be completed. Due to a FY 2008 funding reduction, facilities will be restarted in a prioritized order, pending available staff and resources.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **01-06-2009**

Self-Monitoring Report
LLNL Solar Treatment Unit 09 (STU09)
AREA TF518-N

1. Reporting Period: Business Month **October** Year **2008**

2. Dates (in **bold** and underline) treated ground water was discharged

October	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

Total monthly time facility operated (hours): **0**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**
Influent pH:
Effluent pH:
Effluent Temperature (°C):

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1410	**0**	**0.0**
Total:	**0**	**0.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**0**

6. Comments:

This treatment facility was shut down on 2-20-08 due to elevated tritium activities in the facility influent. Due to a FY 2008 funding reduction, facilities will be restarted in a prioritized order, pending available staff and resources.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Scott Carrigan Date: **02-23-2009**

Self-Monitoring Report
LLNL Solar Treatment Unit 09 (STU09)
AREA TF518-N

1. Reporting Period: Business Month **November** Year **2008**

2. Dates (in **bold** and underline) treated ground water was discharged

November 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
16 17 18 19 20 21 22 23 24 25 26

Total monthly time facility operated (hours): **0**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**
Influent pH:
Effluent pH:
Effluent Temperature (°C):

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1410	**0**	**0.0**
Total:	**0**	**0.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**0**

6. Comments:

This treatment facility was shut down on 2-20-08 due to elevated tritium activities in the facility influent. Due to a FY 2008 funding reduction, facilities will be restarted in a prioritized order, pending available staff and resources.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Scott Kawaguchi Date: **02-23-2009**

Self-Monitoring Report
LLNL Solar Treatment Unit 09 (STU09)
AREA TF518-N

1. Reporting Period: Business Month **December** Year **2008**

2. Dates (in **bold** and underline) treated ground water was discharged

November	27	28	29	30												
December	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

Total monthly time facility operated (hours): **0**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**
Influent pH:
Effluent pH:
Effluent Temperature (°C):

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1410	**0**	**0.0**
Total:	**0**	**0.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**0**

6. Comments:
This treatment facility was shut down on 2-20-08 due to elevated tritium activities in the facility influent. Due to a FY 2008 funding reduction, facilities will be restarted in a prioritized order, pending available staff and resources.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Scott Carrazco Date: **02-23-2009**

Self-Monitoring Report
LLNL Treatment Facility 518-HDTANK (TF518-HDTANK)
AREA TF518-PZ

1. Reporting Period: Business Month **October** Year **2008**

2. Dates (in **bold** and underline) treated ground water was discharged

October	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

Total monthly time facility operated (hours): **0**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**
Influent pH:
Effluent pH:
Effluent Temperature (°C):

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1615	**0**	**0.0**
W-518-1913	**0**	**0.0**
W-518-1914	**0**	**0.0**
W-518-1915	**0**	**0.0**
SVB-518-204	**0**	**0.0**
SVB-518-201	**0**	**0.0**
Total:	**0**	**0.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**0**

6. Comments:
This treatment facility was shut down on 2-27-08 due to a FY 2008 funding reduction. Facilities will be restarted in a prioritized order, pending available staff and resources.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Scott Carpenter Date: **11-03-2008**

Self-Monitoring Report
LLNL Treatment Facility 518-HDTANK (TF518-HDTANK)
AREA TF518-PZ

1. Reporting Period: Business Month **November** Year **2008**

2. Dates (in **bold** and underline) treated ground water was discharged

November 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
16 17 18 19 20 21 22 23 24 25 26

Total monthly time facility operated (hours): **0**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**
Influent pH:
Effluent pH:
Effluent Temperature (°C):

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1615	**0**	**0.0**
W-518-1913	**0**	**0.0**
W-518-1914	**0**	**0.0**
W-518-1915	**0**	**0.0**
SVB-518-204	**0**	**0.0**
SVB-518-201	**0**	**0.0**
Total:	**0**	**0.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**0**

6. Comments:
This treatment facility was shut down on 2-27-08 due to a FY 2008 funding reduction. Facilities will be restarted in a prioritized order, pending available staff and resources.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Scott Cawagas Jr. Date: **12-01-2008**

Self-Monitoring Report
LLNL Treatment Facility 518-HDTANK (TF518-HDTANK)
AREA TF518-PZ

1. Reporting Period: Business Month **December** Year **2008**

2. Dates (in **bold** and underline) treated ground water was discharged

November	27	28	29	30												
December	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

Total monthly time facility operated (hours): **0**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**
Influent pH:
Effluent pH:
Effluent Temperature (°C):

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1615	**0**	**0.0**
W-518-1913	**0**	**0.0**
W-518-1914	**0**	**0.0**
W-518-1915	**0**	**0.0**
SVB-518-204	**0**	**0.0**
SVB-518-201	**0**	**0.0**
Total:	**0**	**0.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**0**

6. Comments:
This treatment facility was shut down on 2-27-08 due to a FY 2008 funding reduction. Facilities will be restarted in a prioritized order, pending available staff and resources.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Scott Kuzan Date: **12-31-2008**

Self-Monitoring Report
LLNL Catalytic Reductive Dehalogenation 1 (CRD1)
AREA TF5475-1

1. Reporting Period: Business Month **October** Year **2008**

2. Dates (in **bold** and underline) treated ground water was discharged

October	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

Total monthly time facility operated (hours): **0**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**
Influent pH:
Effluent pH:
Effluent Temperature (°C):

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1302-2	**0**	**0.0**
Total:	**0**	**0.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
CRD-1 injection	**W-1302-1**	**0**

6. Comments:

This treatment facility was shut down on 7/27/07. Due to a FY 2008 funding reduction, facilities will be restarted in a prioritized order, pending available staff and resources.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **11-06-2008**

Self-Monitoring Report
LLNL Catalytic Reductive Dehalogenation 1 (CRD1)
AREA TF5475-1

1. Reporting Period: Business Month **November** Year **2008**

2. Dates (in **bold** and underline) treated ground water was discharged

November 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
16 17 18 19 20 21 22 23 24 25 26

Total monthly time facility operated (hours): **0**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**
Influent pH:
Effluent pH:
Effluent Temperature (°C):

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1302-2	**0**	**0.0**
Total:	**0**	**0.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
CRD-1 injection	**W-1302-1**	**0**

6. Comments:

This treatment facility was shut down on 7/27/07. Due to a FY 2008 funding reduction, facilities will be restarted in a prioritized order, pending available staff and resources.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **12-04-2008**

Self-Monitoring Report
LLNL Catalytic Reductive Dehalogenation 1 (CRD1)
AREA TF5475-1

1. Reporting Period: Business Month **December** Year **2008**

2. Dates (in **bold** and underline) treated ground water was discharged

November	27	28	29	30											
December	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

Total monthly time facility operated (hours): **0**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**
Influent pH:
Effluent pH:
Effluent Temperature (°C):

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1302-2	**0**	**0.0**
Total:	**0**	**0.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
CRD-1 injection	**W-1302-1**	**0**

6. Comments:

This treatment facility was shut down on 7/27/07. Due to a FY 2008 funding reduction, facilities will be restarted in a prioritized order, pending available staff and resources.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **01-06-2009**

Self-Monitoring Report
LLNL GAC Treatment Unit 09 (GTU09)
AREA TF5475-2

1. Reporting Period: Business Month **October** Year **2008**

2. Dates (in **bold** and underline) treated ground water was discharged

October	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

Total monthly time facility operated (hours): **0**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**
Influent pH:
Effluent pH:
Effluent Temperature (°C):

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1108	**0**	**0.0**
W-1415	**0**	**0.0**
Total:	**0**	**0.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**0**

6. Comments:
This treatment facility was shut down on 2/27/08. Due to a FY 2008 funding reduction, facilities will be restarted in a prioritized order, pending available staff and resources.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **11-06-2008**

Self-Monitoring Report
LLNL GAC Treatment Unit 09 (GTU09)
AREA TF5475-2

1. Reporting Period: Business Month **November** Year **2008**

2. Dates (in **bold** and underline) treated ground water was discharged

November 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
16 17 18 19 20 21 22 23 24 25 26

Total monthly time facility operated (hours): **0**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**
Influent pH:
Effluent pH:
Effluent Temperature (°C):

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1108	**0**	**0.0**
W-1415	**0**	**0.0**
Total:	**0**	**0.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**0**

6. Comments:
This treatment facility was shut down on 2/27/08. Due to a FY 2008 funding reduction, facilities will be restarted in a prioritized order, pending available staff and resources.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **12-04-2008**

Self-Monitoring Report
LLNL GAC Treatment Unit 09 (GTU09)
AREA TF5475-2

1. Reporting Period: Business Month **December** Year **2008**

2. Dates (in **bold** and underline) treated ground water was discharged

November	27	28	29	30											
December	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

Total monthly time facility operated (hours): **0**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**
Influent pH:
Effluent pH:
Effluent Temperature (°C):

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1108	**0**	**0.0**
W-1415	**0**	**0.0**
Total:	**0**	**0.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**0**

6. Comments:
This treatment facility was shut down on 2/27/08. Due to a FY 2008 funding reduction, facilities will be restarted in a prioritized order, pending available staff and resources.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **01-06-2009**

Self-Monitoring Report
LLNL Catalytic Reductive Dehalogenation 2 (CRD2)
AREA TF5475-3

1. Reporting Period: Business Month **October** Year **2008**

2. Dates (in **bold** and underline) treated ground water was discharged

October	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

Total monthly time facility operated (hours): **0**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**
Influent pH:
Effluent pH:
Effluent Temperature (°C):

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1608	**0**	**0.0**
W-1605	**0**	**0.0**
W-1604	**0**	**0.0**
W-1609	**0**	**0.0**
Total:	**0**	**0.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
CRD-2 injection	**W-1610**	**0**

6. Comments:

This treatment facility was shut down on 8/31/07. Due to a FY 2008 funding reduction, facilities will be restarted in a prioritized order, pending available staff and resources.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **11-06-2008**

Self-Monitoring Report
LLNL Catalytic Reductive Dehalogenation 2 (CRD2)
AREA TF5475-3

1. Reporting Period: Business Month **November** Year **2008**

2. Dates (in **bold** and underline) treated ground water was discharged

November **01** **02** **03** **04** **05** **06** **07** **08** **09** **10** **11** 12 13 14 15
16 17 18 19 20 21 22 23 24 25 26

Total monthly time facility operated (hours): **0**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**
Influent pH:
Effluent pH:
Effluent Temperature (°C):

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1608	**0**	**0.0**
W-1605	**0**	**0.0**
W-1604	**0**	**0.0**
W-1609	**0**	**0.0**
Total:	**0**	**0.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
CRD-2 injection	**W-1610**	**0**

6. Comments:
This treatment facility was shut down on 8/31/07. Due to a FY 2008 funding reduction, facilities will be restarted in a prioritized order, pending available staff and resources.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **12-04-2008**

Self-Monitoring Report
LLNL Catalytic Reductive Dehalogenation 2 (CRD2)
AREA TF5475-3

1. Reporting Period: Business Month **December** Year **2008**

2. Dates (in **bold** and underline) treated ground water was discharged

November	27	28	29	30											
December	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

Total monthly time facility operated (hours): **0**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**
Influent pH:
Effluent pH:
Effluent Temperature (°C):

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1608	**0**	**0.0**
W-1605	**0**	**0.0**
W-1604	**0**	**0.0**
W-1609	**0**	**0.0**
Total:	**0**	**0.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
CRD-2 injection	**W-1610**	**0**

6. Comments:

This treatment facility was shut down on 8/31/07. Due to a FY 2008 funding reduction, facilities will be restarted in a prioritized order, pending available staff and resources.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **01-06-2009**

Self-Monitoring Report
LLNL Vapor Extraction System 08 (VES08)
AREA VTF406-HS

1. Reporting Period: Business Month **October** Year **2008**

2. Dates (in **bold** and underline) treatment facility operated

October	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

3. Wellfield Data:

Source	Monthly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-217	**0**	**0.0**	**0**	**0**	**0**
W-514-2007A	**0**	**0.0**	**0**	**0**	**0**
W-514-2007B	**0**	**0.0**	**0**	**0**	**0**
Total:	**0**	**0.0**			

4. Comments:

A data review conducted in late June indicates that recent flow totals for this facility are suspect. The facility was shutdown on 6/26 and will remain down until issues with the flow totals are resolved. Did not operate in the month of Oct. 2008. Due to a FY 2008 funding reduction, facilities will be restarted in a prioritized order, pending available staff and resources.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **11-05-2008**

Self-Monitoring Report
LLNL Vapor Extraction System 08 (VES08)
AREA VTF406-HS

1. Reporting Period: Business Month **November** Year **2008**

2. Dates (in **bold** and underline) treatment facility operated

November **01** **02** **03** **04** **05** **06** **07** **08** **09** **10** **11** 12 13 14 15
16 **17** **18** **19** **20** **21** **22** **23** **24** **25** **26**

3. Wellfield Data:

Source	Monthly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-217	**0**	**0.0**	**0**	**0**	**0**
W-514-2007A	**0**	**0.0**	**0**	**0**	**0**
W-514-2007B	**0**	**0.0**	**0**	**0**	**0**
Total:	**0**	**0.0**			

4. Comments:

A data review conducted in late June indicates that recent flow totals for this facility are suspect. The facility was shutdown on 6/26 and will remain down until issues with the flow totals are resolved. Did not operate in the month of Nov. 2008. Due to a FY 2008 funding reduction, facilities will be restarted in a prioritized order, pending available staff and resources.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Benjamin J. Johnson Date: **12-02-2008**

Self-Monitoring Report
LLNL Vapor Extraction System 08 (VES08)
AREA VTF406-HS

1. Reporting Period: Business Month **December** Year **2008**

2. Dates (in **bold** and underline) treatment facility operated

November	27	28	29	30											
December	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

3. Wellfield Data:

Source	Monthly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-217	**0**	**0.0**	**0**	**0**	**0**
W-514-2007A	**0**	**0.0**	**0**	**0**	**0**
W-514-2007B	**0**	**0.0**	**0**	**0**	**0**
Total:	**0**	**0.0**			

4. Comments:

A data review conducted in late June indicates that recent flow totals for this facility are suspect. The facility was shutdown on 6/26 and will remain down until issues with the flow totals are resolved. Did not operate in the month of Dec. 2008. Due to a FY 2008 funding reduction, facilities will be restarted in a prioritized order, pending available staff and resources.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Benjamin J. Lugo Date: **01-06-2009**

Self-Monitoring Report
LLNL Vapor Extraction System 14 (VES14)
AREA VTF511

1. Reporting Period: Business Month **October** Year **2008**

2. Dates (in **bold** and underline) treatment facility operated

October	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

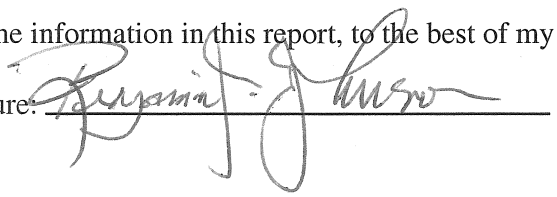
3. Wellfield Data:

Source	Monthly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-274	**0**	**0.0**	**0**	**0**	**0**
W-2208A	**0**	**0.0**	**0**	**0**	**0**
W-2207A	**0**	**0.0**	**0**	**0**	**0**
W-2207B	**0**	**0.0**	**0**	**0**	**0**
W-1517	**0**	**0.0**	**0**	**0**	**0**
W-2208B	**0**	**0.0**	**0**	**0**	**0**
W-2204	**0**	**0.0**	**0**	**0**	**0**
W-2206	**0**	**0.0**	**0**	**0**	**0**
W-2205	**0**	**0.0**	**0**	**0**	**0**
Total:	**0**	**0.0**			

4. Comments:

Facility was discovered non-operational on Mon. 8/18/08 with no available electronic data, no indication of date or time of failure. SMR data is based on log book data collected on Friday 8/15/08. Operational days and totals may need to be revised once the electronic data has been evaluated. Facility is currently non-operational. Due to a FY 2008 funding reduction, facilities will be restarted in a prioritized order, pending available staff and resources.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **11-05-2008**

Self-Monitoring Report
LLNL Vapor Extraction System 14 (VES14)
AREA VTF511

1. Reporting Period: Business Month **November** Year **2008**

2. Dates (in **bold** and underline) treatment facility operated

November **01** **02** **03** **04** **05** **06** **07** **08** **09** **10** **11** 12 13 14 15
16 **17** **18** **19** **20** **21** **22** **23** **24** **25** **26**

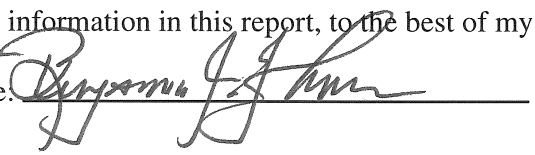
3. Wellfield Data:

Source	Monthly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-274	**0**	**0.0**	**0**	**0**	**0**
W-2208A	**0**	**0.0**	**0**	**0**	**0**
W-2207A	**0**	**0.0**	**0**	**0**	**0**
W-2207B	**0**	**0.0**	**0**	**0**	**0**
W-1517	**0**	**0.0**	**0**	**0**	**0**
W-2208B	**0**	**0.0**	**0**	**0**	**0**
W-2204	**0**	**0.0**	**0**	**0**	**0**
W-2206	**0**	**0.0**	**0**	**0**	**0**
W-2205	**0**	**0.0**	**0**	**0**	**0**
Total:	**0**	**0.0**			

4. Comments:

Facility was discovered non-operational on Mon. 8/18/08 with no available electronic data, no indication of date or time of failure. SMR data is based on log book data collected on Friday 8/15/08. Operational days and totals may need to be revised once the electronic data has been evaluated. Facility is currently non-operational. Due to a FY 2008 funding reduction, facilities will be restarted in a prioritized order, pending available staff and resources.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **12-02-2008**

Self-Monitoring Report
LLNL Vapor Extraction System 14 (VES14)
AREA VTF511

1. Reporting Period: Business Month **December** Year **2008**

2. Dates (in **bold** and underline) treatment facility operated

November	27	28	29	30											
December	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

3. Wellfield Data:

Source	Monthly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-274	**0**	**0.0**	**0**	**0**	**0**
W-2208A	**0**	**0.0**	**0**	**0**	**0**
W-2207A	**0**	**0.0**	**0**	**0**	**0**
W-2207B	**0**	**0.0**	**0**	**0**	**0**
W-1517	**0**	**0.0**	**0**	**0**	**0**
W-2208B	**0**	**0.0**	**0**	**0**	**0**
W-2204	**0**	**0.0**	**0**	**0**	**0**
W-2206	**0**	**0.0**	**0**	**0**	**0**
W-2205	**0**	**0.0**	**0**	**0**	**0**
Total:	**0**	**0.0**			

4. Comments:

Did not operate in the month of Dec. Facility was discovered non-operational on Mon. 8/18/08 with no available electronic data, no indication of date or time of failure. SMR data is based on log book data collected on Friday 8/15/08. Operational days and totals may need to be revised once the electronic data has been evaluated. Facility is currently non-operational. Due to a FY 2008 funding reduction, facilities will be restarted in a prioritized order, pending available staff and resources.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **01-06-2009**

Self-Monitoring Report
LLNL Vapor Extraction System 19 (VES19)
AREA VTF518-PZ

1. Reporting Period: Business Month **October Week: 1** Year **2008**

2. Dates (in **bold** and underline) treatment facility operated

October	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

3. Wellfield Data:

Source	Weekly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-1615	**0**	**0.0**	**0**	**0**	**0**
W-518-1913	**0**	**0.0**	**0**	**0**	**0**
W-518-1914	**0**	**0.0**	**0**	**0**	**0**
W-518-1915	**0**	**0.0**	**0**	**0**	**0**
SVB-518-204	**0**	**0.0**	**0**	**0**	**0**
SVB-518-201	**0**	**0.0**	**0**	**0**	**0**
Total:	**0**	**0.0**			

4. Comments:

This treatment facility was shut down on 2/27/08. Due to a FY 2008 funding reduction, facilities will be restarted in a prioritized order, pending available staff and resources.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **11-06-2008**

Self-Monitoring Report
LLNL Vapor Extraction System 19 (VES19)
AREA VTF518-PZ

1. Reporting Period: Business Month **November Week: 1** Year **2008**

2. Dates (in **bold** and underline) treatment facility operated

November **01** **02** **03** **04** **05** **06** **07** **08** **09** **10** **11** 12 13 14 15
16 **17** **18** **19** **20** **21** **22** **23** **24** **25** **26**

3. Wellfield Data:

Source	Weekly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-1615	**0**	**0.0**	**0**	**0**	**0**
W-518-1913	**0**	**0.0**	**0**	**0**	**0**
W-518-1914	**0**	**0.0**	**0**	**0**	**0**
W-518-1915	**0**	**0.0**	**0**	**0**	**0**
SVB-518-204	**0**	**0.0**	**0**	**0**	**0**
SVB-518-201	**0**	**0.0**	**0**	**0**	**0**
Total:	**0**	**0.0**			

4. Comments:

This treatment facility was shut down on 2/27/08. Due to a FY 2008 funding reduction, facilities will be restarted in a prioritized order, pending available staff and resources.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **12-04-2008**

Self-Monitoring Report
LLNL Vapor Extraction System 19 (VES19)
AREA VTF518-PZ

1. Reporting Period: Business Month **December Week: 1** Year **2008**

2. Dates (in **bold** and underline) treatment facility operated

November	27	28	29	30											
December	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

3. Wellfield Data:

Source	Weekly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-1615	**0**	**0.0**	**0**	**0**	**0**
W-518-1913	**0**	**0.0**	**0**	**0**	**0**
W-518-1914	**0**	**0.0**	**0**	**0**	**0**
W-518-1915	**0**	**0.0**	**0**	**0**	**0**
SVB-518-204	**0**	**0.0**	**0**	**0**	**0**
SVB-518-201	**0**	**0.0**	**0**	**0**	**0**
Total:	**0**	**0.0**			

4. Comments:

This treatment facility was shut down on 2/27/08. Due to a FY 2008 funding reduction, facilities will be restarted in a prioritized order, pending available staff and resources.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **01-06-2009**

Self-Monitoring Report
LLNL Vapor Extraction System 01 (VES01)
AREA VTF5475

1. Reporting Period: Business Month **October** Year **2008**

2. Dates (in **bold** and underline) treatment facility operated

October	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

3. Wellfield Data:

Source	Monthly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-ETS-507	**0**	**0.0**	**0**	**0**	**0**
W-1605	**0**	**0.0**	**0**	**0**	**0**
W-1608	**0**	**0.0**	**0**	**0**	**0**
W-2303	**0**	**0.0**	**0**	**0**	**0**
W-2212	**0**	**0.0**	**0**	**0**	**0**
W-2211	**0**	**0.0**	**0**	**0**	**0**
W-2302	**0**	**0.0**	**0**	**0**	**0**
SVI-ETS-504	**0**	**0.0**	**0**	**0**	**0**
Total:	**0**	**0.0**			

4. Discharge Information:

Discharge Location	Receiving Water Station	Volume
VTF5475 Vapor Injection Well	**SVI-ETS-505**	**0**

5. Comments:

This treatment facility was shut down on 10-12-07 due to a FY 2008 funding reduction. Facilities will be restarted in a prioritized order, pending available staff and resources.

6. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **11-03-2008**

Self-Monitoring Report
LLNL Vapor Extraction System 01 (VES01)
AREA VTF5475

1. Reporting Period: Business Month **November** Year **2008**

2. Dates (in **bold** and underline) treatment facility operated

November **01** **02** **03** **04** **05** **06** **07** **08** **09** **10** **11** 12 13 14 15
16 **17** **18** **19** **20** **21** **22** **23** **24** **25** **26**

3. Wellfield Data:

Source	Monthly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-ETS-507	**0**	**0.0**	**0**	**0**	**0**
W-1605	**0**	**0.0**	**0**	**0**	**0**
W-1608	**0**	**0.0**	**0**	**0**	**0**
W-2303	**0**	**0.0**	**0**	**0**	**0**
W-2212	**0**	**0.0**	**0**	**0**	**0**
W-2211	**0**	**0.0**	**0**	**0**	**0**
W-2302	**0**	**0.0**	**0**	**0**	**0**
SVI-ETS-504	**0**	**0.0**	**0**	**0**	**0**
Total:	**0**	**0.0**			

4. Discharge Information:

Discharge Location	Receiving Water Station	Volume
VTF5475 Vapor Injection Well	**SVI-ETS-505**	**0**

5. Comments:

This treatment facility was shut down on 10-12-07 due to a FY 2008 funding reduction. Facilities will be restarted in a prioritized order, pending available staff and resources.

6. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Scott Cawagas Jr. Date: **12-02-2008**

Self-Monitoring Report
LLNL Vapor Extraction System 01 (VES01)
AREA VTF5475

1. Reporting Period: Business Month **December** Year **2008**

2. Dates (in **bold** and underline) treatment facility operated

November	27	28	29	30											
December	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

3. Wellfield Data:

Source	Monthly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-ETS-507	**0**	**0.0**	**0**	**0**	**0**
W-1605	**0**	**0.0**	**0**	**0**	**0**
W-1608	**0**	**0.0**	**0**	**0**	**0**
W-2303	**0**	**0.0**	**0**	**0**	**0**
W-2212	**0**	**0.0**	**0**	**0**	**0**
W-2211	**0**	**0.0**	**0**	**0**	**0**
W-2302	**0**	**0.0**	**0**	**0**	**0**
SVI-ETS-504	**0**	**0.0**	**0**	**0**	**0**
Total:	**0**	**0.0**			

4. Discharge Information:

Discharge Location	Receiving Water Station	Volume
VTF5475 Vapor Injection Well	**SVI-ETS-505**	**0**

5. Comments:

This treatment facility was shut down on 10-12-07 due to a FY 2008 funding reduction. Facilities will be restarted in a prioritized order, pending available staff and resources.

6. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Scott Kawaguchi Date: **12-31-2008**

Attachment C

Lake Haussmann

Attachment C

Lake Haussmann Fourth Quarter 2008 Monitoring Program Summary

This attachment summarizes the fourth quarter 2008 LLNL Environmental Protection Department discharge data for Lake Haussmann. Lake Haussmann is an artificial water body that has a 37 acre-ft capacity. It is located in the central portion of the Livermore Site (Fig. C-1) and receives storm water runoff and treated ground water discharges.

Samples are collected from water discharged from Lake Haussmann and analyzed as outlined in Jackson (2002). The discharge samples are used to determine compliance with discharge limits in the *Record of Decision* (DOE, 1992), and the subsequent *Explanation of Significant Differences for Metals Discharge Limits* (Berg et al., 1997).

Dry season (June, July, August, September) discharges are sampled at each manual release or monthly during periods of continual release. Wet season (October through May) discharge samples are collected at the first release of the wet season and one other discharge in conjunction with a storm water monitoring event. Analytic results of discharge samples collected at location CDBX are compared with the LLNL Arroyo Las Positas outfall sample results collected at location WPDC (Fig. C-1). The results for samples collected at locations CDBX and WPDC are presented in Table C-1. All PCBs were below detection limits. No metals exceed discharge limits. Acute bioassay tests showed no acute toxicity. However, chronic toxicity tests resulted in a significant reduction in reproduction for one of the three aquatic organisms, the water flea (*Ceriodaphnia dubia*) at the CDBX sampling location. The cause for this impaired reproduction in the one sample is unknown. Immediately after receiving the chronic toxicity results from the analytical laboratory, a follow-up sample was collected at the CDBX location on December 1, 2008. This chronic toxicity test demonstrated a 100% survival and reproduction rate in the water flea. The pH values at both locations exceeded the desired range of 6.5 to 8.5. The pH has averaged 8.8 since 1998 at the CDBX sampling location and is typically elevated during summer due to increased photosynthesis.

Discharge from Lake Haussmann remained continuous during the fourth quarter, with one exception. Invasive species mitigation in Arroyo Las Positas requires the temporary cessation of upstream discharges. No discharge from Lake Haussmann occurred from October 20th to November 10th to support this mitigation effort. The Lake Haussmann upper weir gate was otherwise maintained at the lowered position during the entire fourth quarter, so that releases occurred continuously to minimize changes in surface water level and allow for a more natural ecosystem.

References

U.S. Department of Energy, *Record of Decision for the Lawrence Livermore National Laboratory, Livermore Site*, Lawrence Livermore National Laboratory, Livermore, CA, UCRL-AR-109105, (1992).

Berg, L.L., E.N. Folsom, M.D. Dresen, R.W. Bainer, and A.L. Lamarre, Eds., *Explanation of Significant Differences for Metals Discharge Limits at the Lawrence Livermore National Laboratory, Livermore Site*, Lawrence Livermore National Laboratory, Livermore, CA, UCRL-AR-125927 (1997).

Jackson, C.S., *Drainage Retention Basin Monitoring Plan Change,* Letter to Ms. Naomi Feger, San Francisco Bay RWQCB, Lawrence Livermore National Laboratory, Livermore, CA, WGMG02:175:CSJ:RW:kh, (December 6, 2002).

Table C-1. LLNL Lake Haussman release monitoring data for points CDBX and WPDC, October through December 2008.

			CDBX 10/13	CDBX 12/1	WPDC 10/13	WPDC 12/1	Discharge Limits 1-Apr through 30-Nov	Discharge Limits 1-Dec through 31-Mar
Physical								
pH	Units	EPA-150.1	8.66	b	8.83	b	not <6.5 or >8.5	not <6.5 or >8.5
Total Suspended solids (TSS)	mg/L	EPA-160.2	1.2	b	20	b	na	na
Polychlorinated biphenyls			a	b	b	b	na	na
PCB 1016	ug/L	E8082A	< 0.5	b	b	b	na	na
PCB 1221	ug/L	E8082A	< 0.5	b	b	b	na	na
PCB 1232	ug/L	E8082A	< 0.5	b	b	b	na	na
PCB 1242	ug/L	E8082A	< 0.5	b	b	b	na	na
PCB 1248	ug/L	E8082A	< 0.5	b	b	b	na	na
PCB 1254	ug/L	E8082A	< 0.5	b	b	b	na	na
PCB 1260	ug/L	E8082A	< 0.5	b	b	b	na	na
Metals								
Aluminum	mg/L	EPA-200.7	<0.05	b	0.71	b	na	na
Antimony	mg/L	EPA-200.8	<0.002	b	<0.002	b	0.006	na
Arsenic	mg/L	EPA-200.8	<0.002	b	<0.002	b	0.05	0.01
Barium	mg/L	EPA-200.7	0.17	b	0.11	b	na	na
Beryllium	mg/L	EPA-210.2	<0.0002	b	<0.0002	b	0.004	na
Boron	mg/L	EPA-200.7	2.5	b	1.3	b	na	na
Cadmium	mg/L	EPA-200.8	<0.001	b	<0.001	b	0.005	0.0022
Chromium	mg/L	EPA-200.8	0.003	b	<0.003	b	0.05	na
Cobalt	mg/L	EPA-200.7	<0.05	b	<0.05	b	na	na
Copper	mg/L	EPA-200.8	<0.010	b	<0.002	b	1.3	0.0236
Hexavalent Chromium	mg/L	EPA-218.6	0.0024	b	0.013	b	na	0.022
Iron	mg/L	EPA-200.7	<0.05	b	0.87	b	na	na
Lead	mg/L	EPA-200.8	<0.001	b	<0.001	b	0.015	0.0064
Manganese	mg/L	EPA-200.8	0.0033	b	0.0016	b	0.5	0.5
Mercury	mg/L	EPA-245.1	<0.0002	b	<0.0002	b	0.002	0.002
Molybdenum	mg/L	EPA-200.8	0.0031	b	<0.001	b	0.05	na
Nickel	mg/L	EPA-200.8	<0.002	b	<0.002	b	0.1	0.32
Selenium	mg/L	EPA-200.8	0.002	b	<0.002	b	0.05	0.01
Silver	mg/L	EPA-200.8	<0.001	b	<0.001	b	0.1	0.0082
Thallium	mg/L	EPA-200.8	<0.001	b	<0.001	b	0.002	na
Vanadium	mg/L	EPA-200.7	<0.01	b	<0.01	b	na	na
Zinc	mg/L	EPA-200.7	<0.05	b	<0.05	b	na	0.22
Acute Toxicity								
Aq. Bioassay, Survival	Percent	Title 22	100	b	100	b	na	na
Chronic Toxicity						b	na	na
Fathead Minnow Survival	Percent	E1000	100	b	b	b	na	na
Fathead Minnow Growth	Percent	E1000	100	b	b	b	na	na
Water Flea Survival	Percent	E1002	100	100	b	b	na	na
Water Flea Reproduction	Percent	E1002	**75**	100	b	b	na	na
Algae Growth	Percent	E1003	100	b	b	b	na	na

a) All analysis results for these analytes are below reporting limits.
b) Sampling for these analytes not required at this location.

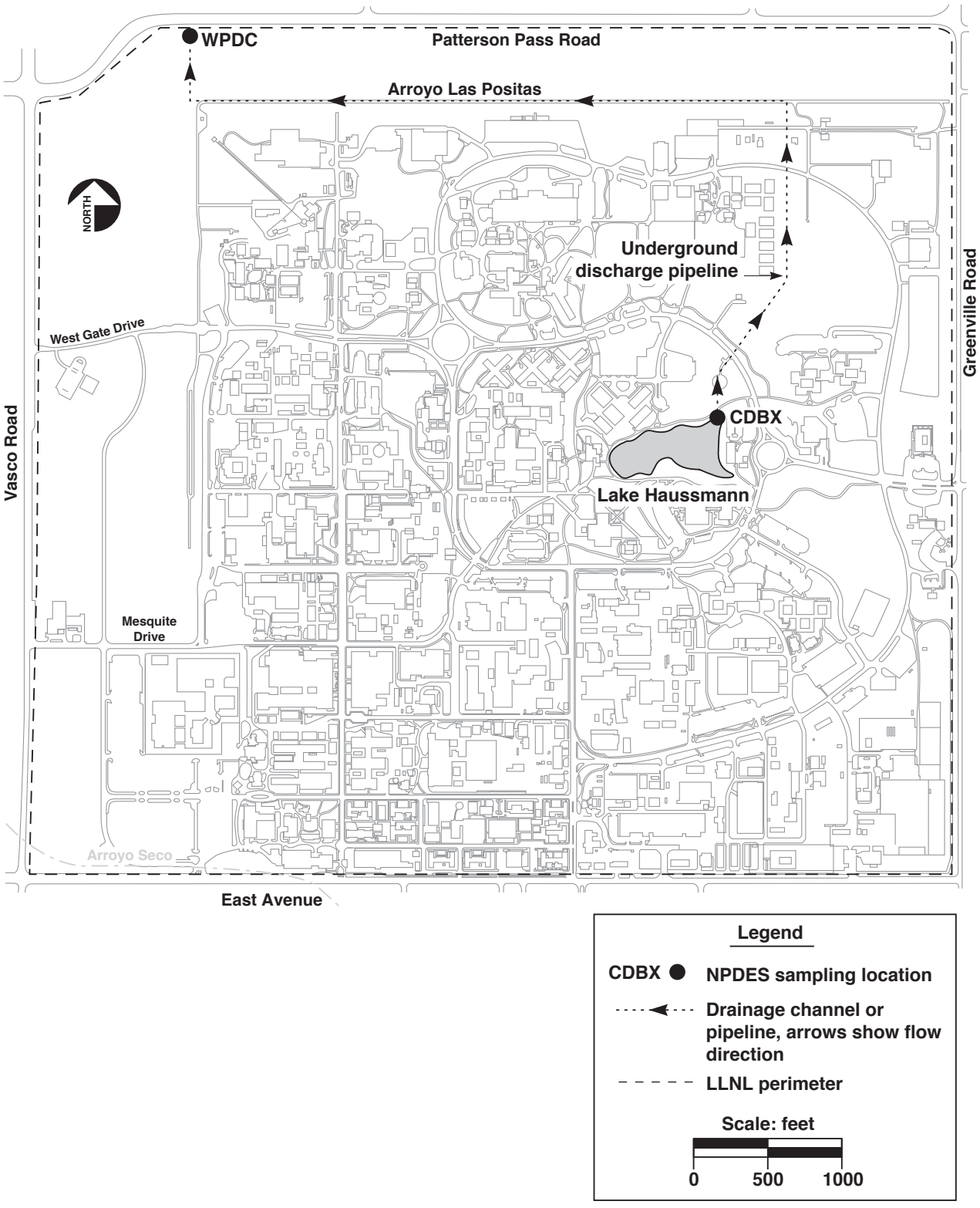


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Figure C-1. Location of Lake Haussmann showing discharge sampling locations.

Attachment D

Figures

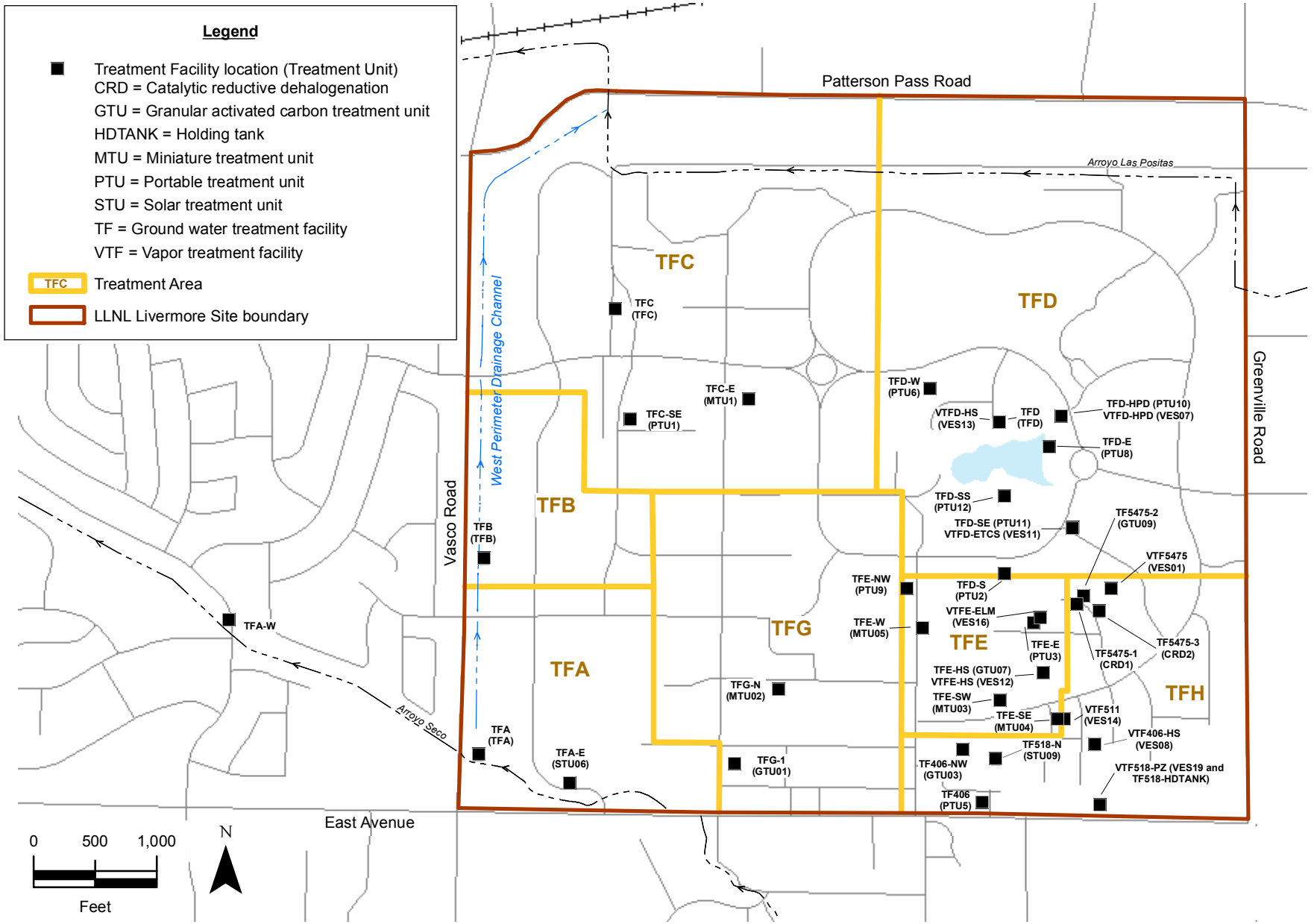

Figure 1. Livermore Site treatment areas and treatment facility locations.

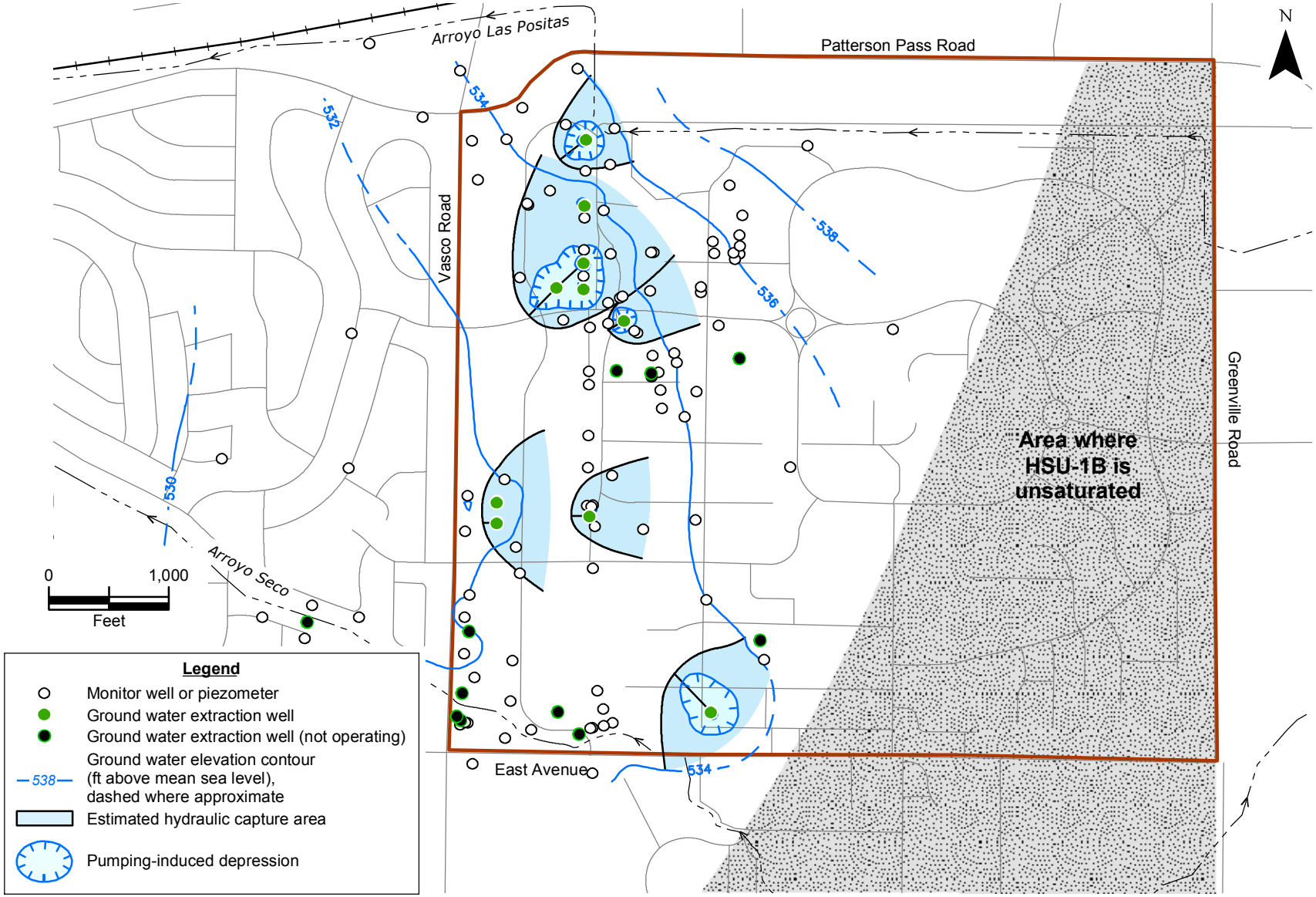

Figure 2. Ground water elevation contour map based on 125 wells completed within HSU-1B showing estimated hydraulic capture areas, LLNL and vicinity, October 2008.

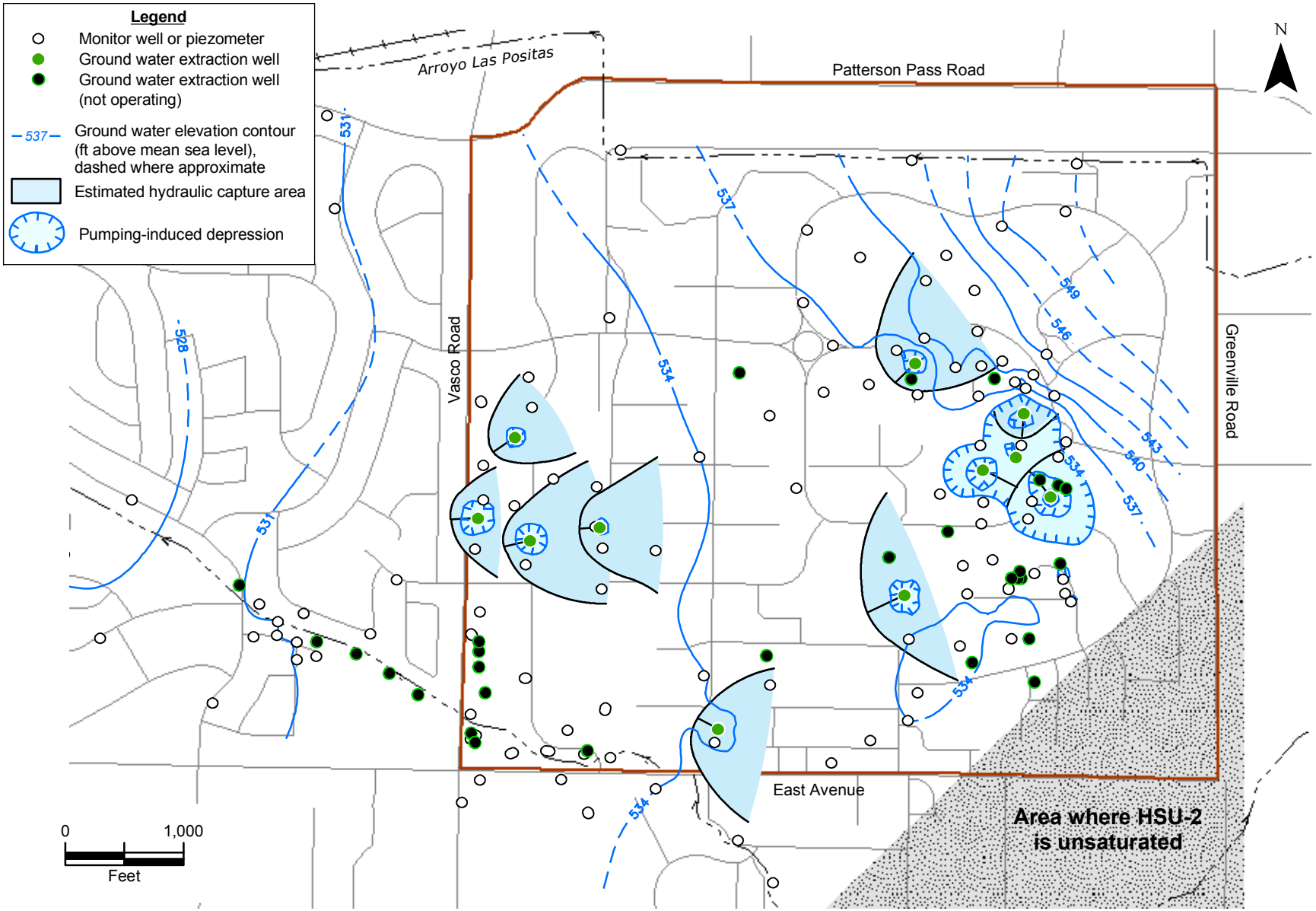

Figure 3. Ground water elevation contour map based on 160 wells completed within HSU-2 showing estimated hydraulic capture areas, LLNL and vicinity, October 2008.

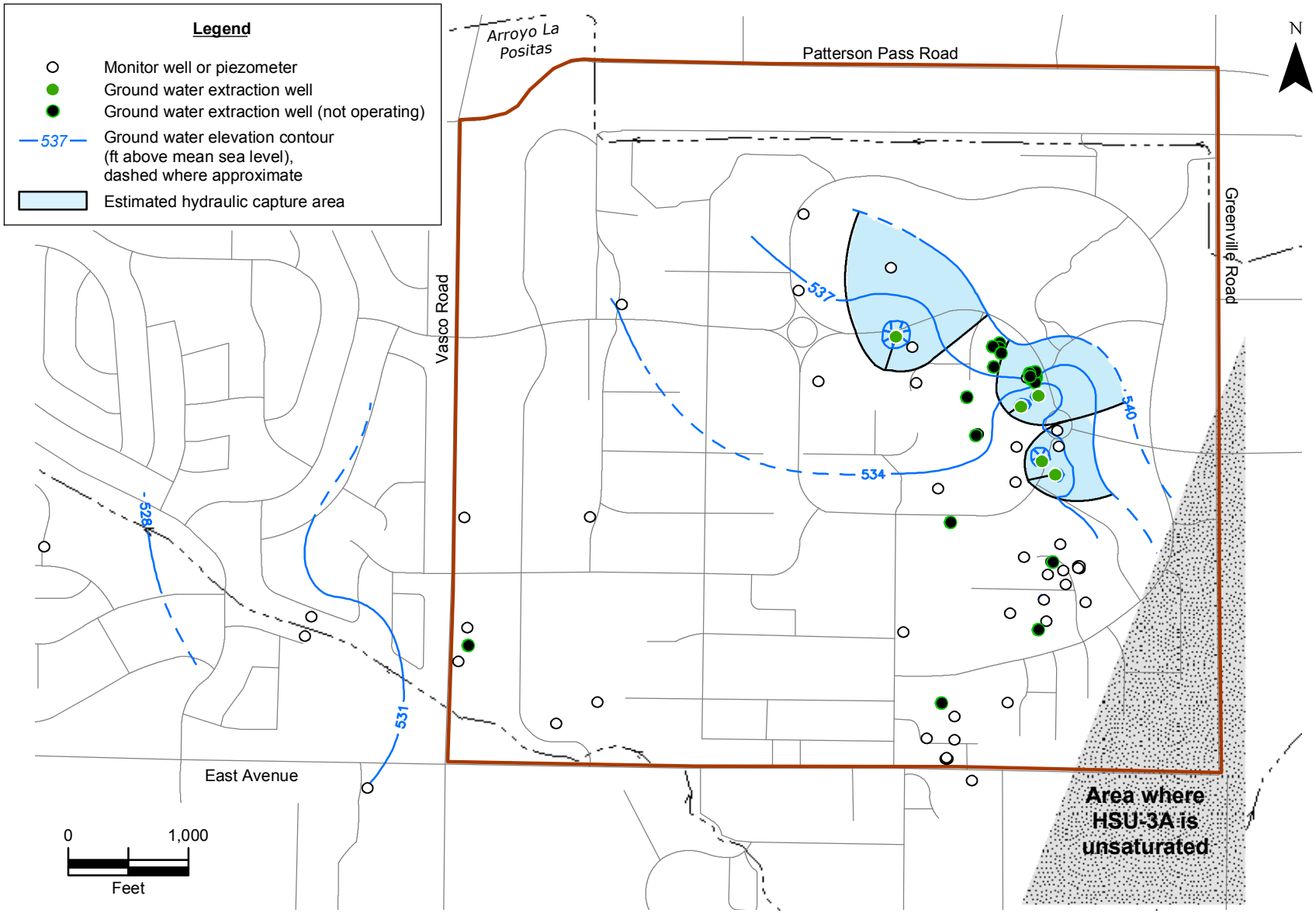

Figure 4. Ground water elevation contour map based on 75 wells completed within HSU-3A showing estimated hydraulic capture areas, LLNL and vicinity, October 2008.

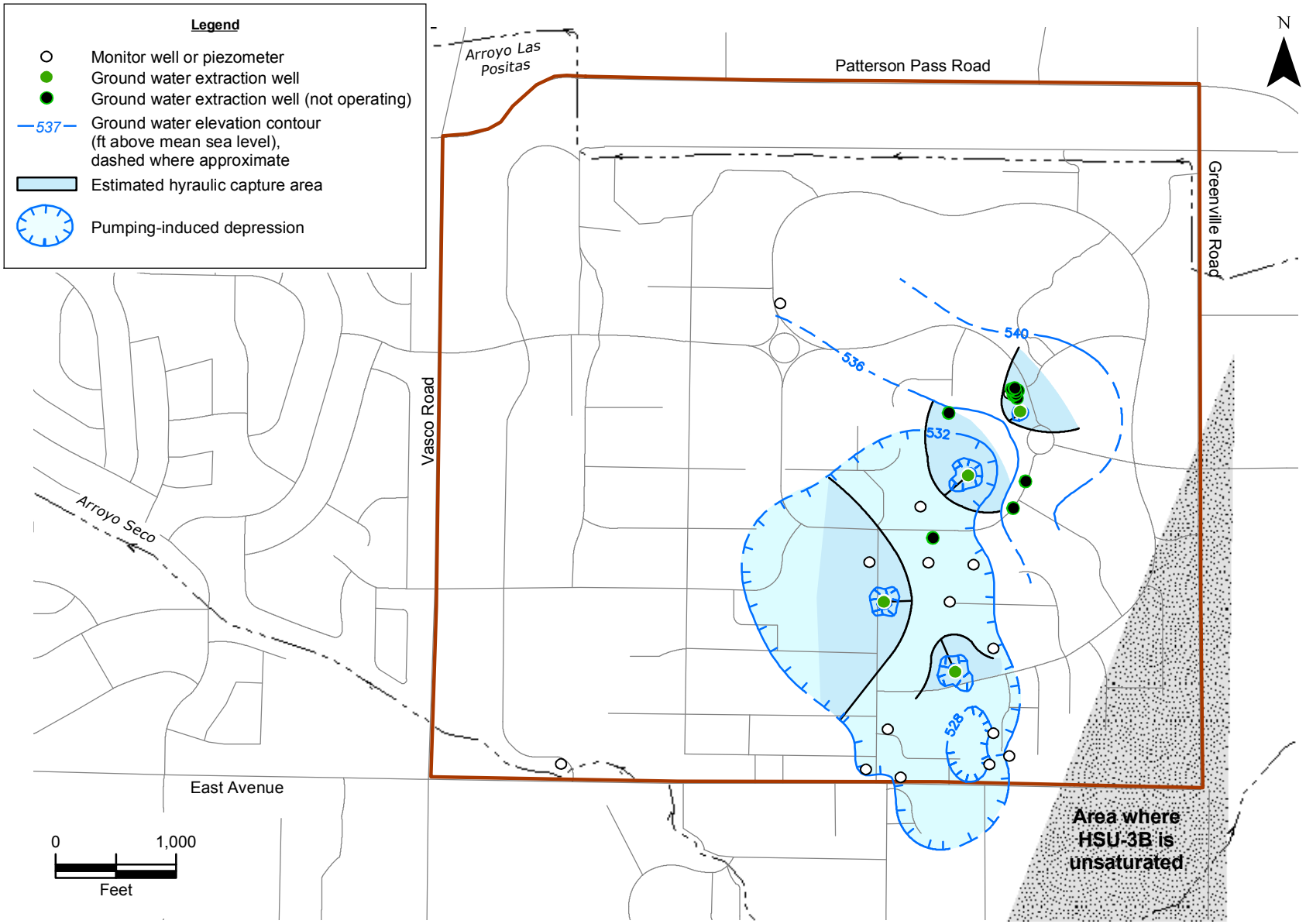

Figure 5. Ground water elevation contour map based on 30 wells completed within HSU-3B showing estimated hydraulic capture areas, LLNL and vicinity, October 2008.

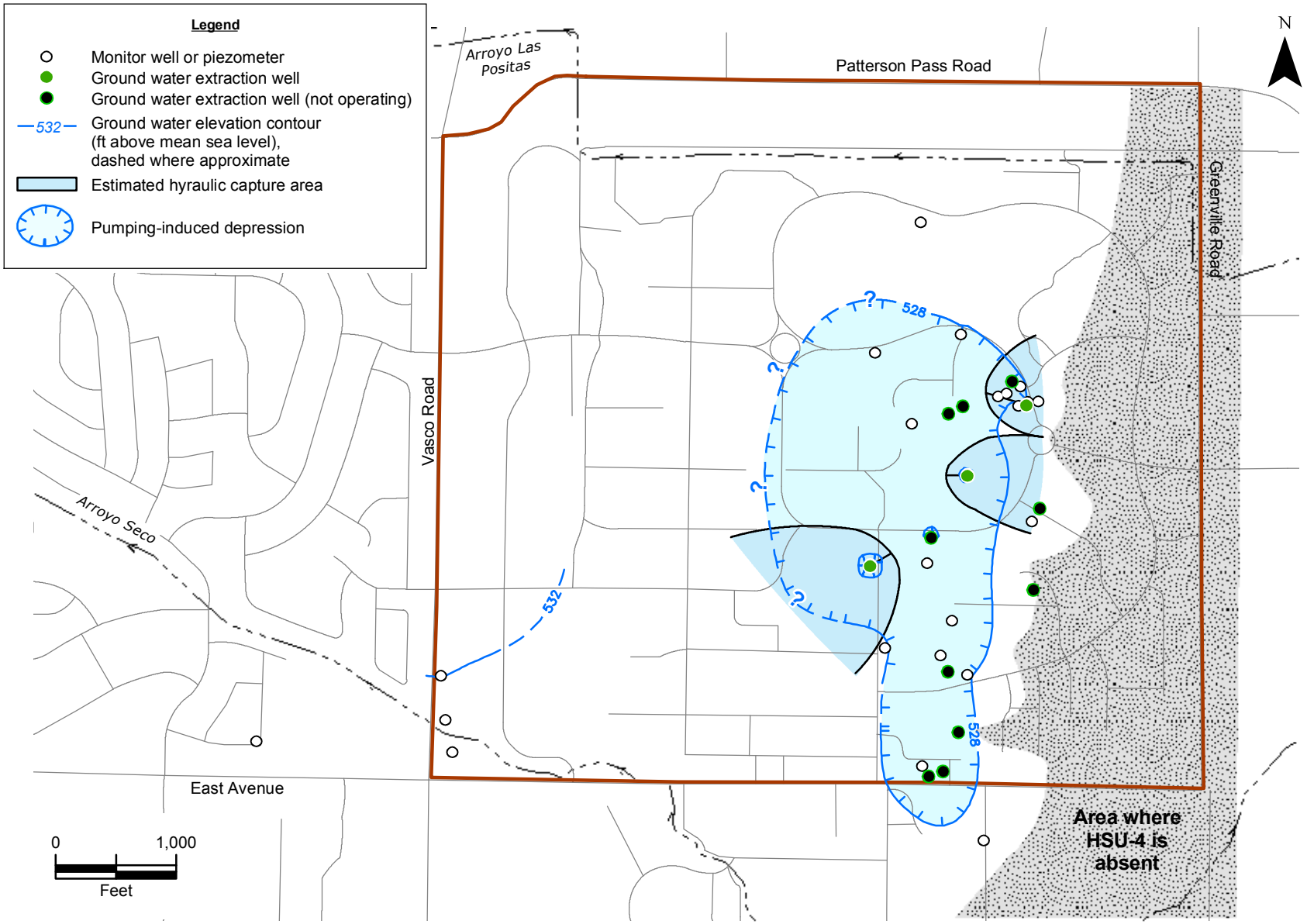

Figure 6. Ground water elevation contour map based on 35 wells completed within HSU-4 showing estimated hydraulic capture areas, LLNL and vicinity, October 2008.

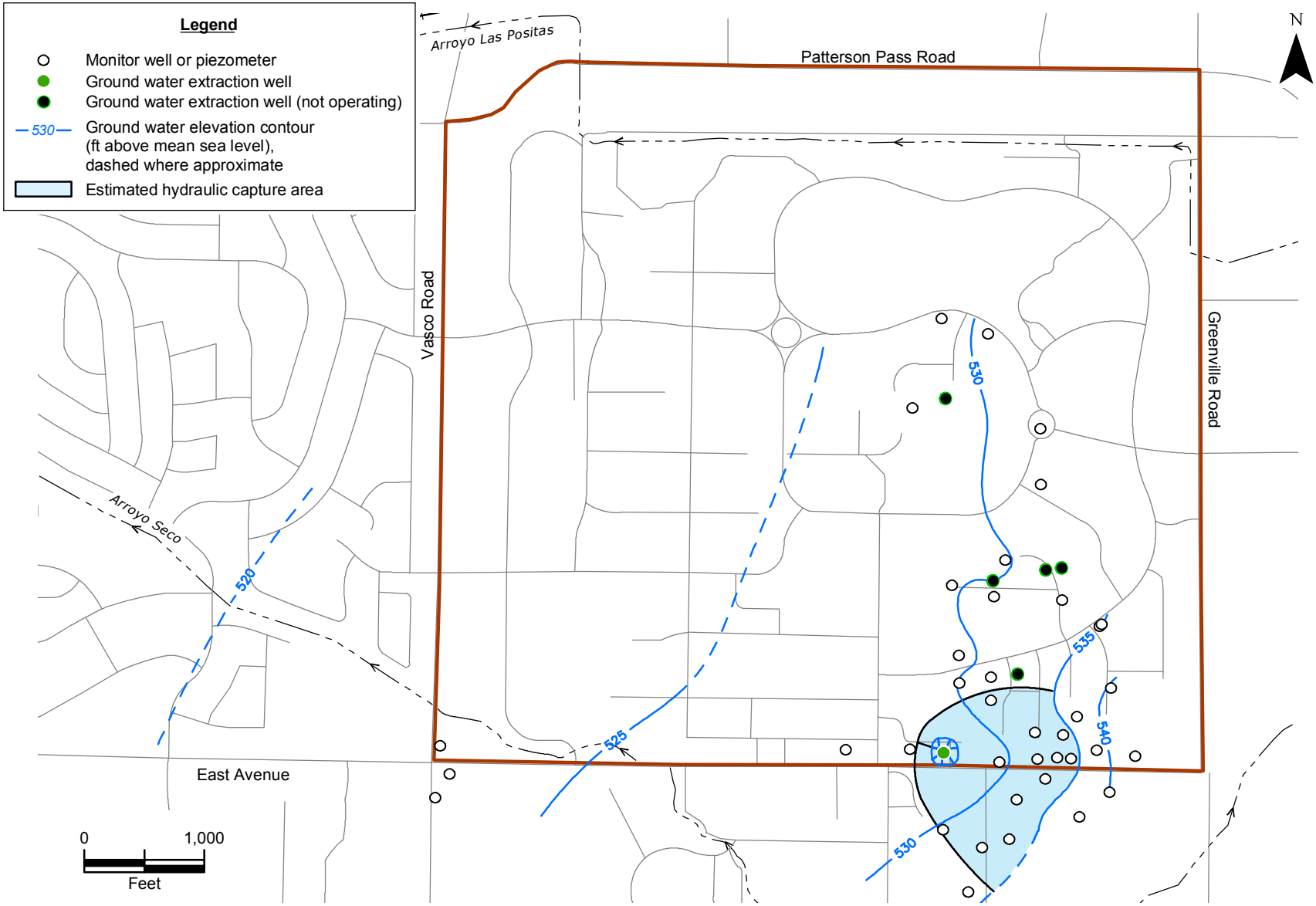

Figure 7. Ground water elevation contour map based on 45 wells completed within HSU-5 showing estimated hydraulic capture areas, LLNL and vicinity, October 2008.